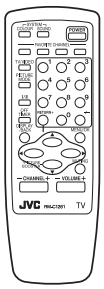
JVC

SERVICE MANUAL

FLAT COLOUR TELEVISION

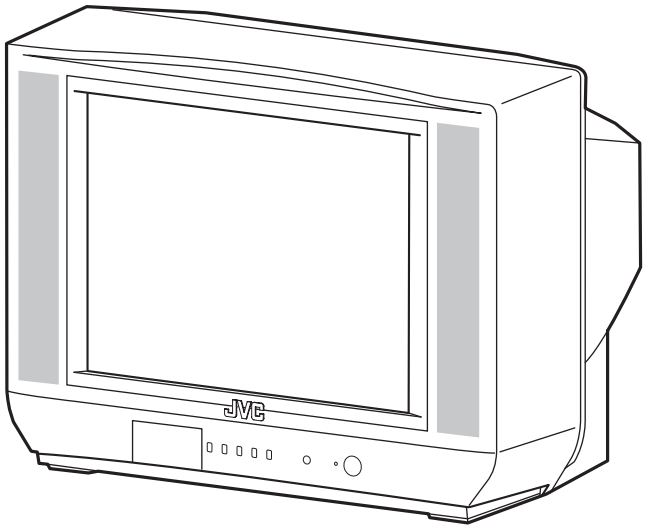
AV-17V214/V,
AV-17V314/V

BASIC CHASSIS
CW



[AV-17V214/V]

[AV-17V314/V]



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2005/1

SPECIFICATION

Items		Contents	
		AV-17V214/V	AV-17V314/V
Dimensions (W × H × D)		51.8cm × 39.15cm × 40.3cm	
Mass		15kg	
TV RF System		B, G, I, D, K, M	
Colour System	TV Mode Video Mode	PAL / SECAM / NTSC3.58 / NTSC4.43 PAL / SECAM / NTSC3.58 / NTSC4.43	
Stereo System		Mono	Playback
Receiving Frequency	VHF Low VHF High UHF CATV	46.25MHz ~ 168.25MHz (AU0 ~ S10) 175.25MHz ~ 463.25MHz (E5 ~ S41) 471.25MHz ~ 863.25MHz (E21 ~ CHINA 57) Mid : X ~ Z, S1 ~ S10 Super: S11 ~ S20 Hyper: S21 ~ S41	
Intermediate Frequency	VIF	38.0MHz	
	SIF	D/K: 31.5MHz (6.5MHz) I: 32.0MHz (6.0MHz) B/G: 32.5MHz (5.5MHz) M: 33.5MHz (4.5MHz)	
Colour Sub Carrier Frequency		4.43MHz (PAL), 4.40MHz/4.25MHz (SECAM), 3.58MHz/4.43MHz (NTSC)	
Aerial Input Terminal		75Ω unbalanced, coaxial	
Power Input		AC110V-AC240V, 50Hz / 60Hz (Operating Voltage 90V ~ 260V)	
Power Consumption		71W (Max.) / 54W (Avg.)	86W (Max.) / 63W (Avg.)
Picture Tube ⚠		A41QFG692X 17-inch, aspect ratio 4:3, flat square face type, tinted	
Screen Size		Visible size : 41.4cm (Diagonal) / 33.0cm × 25.0cm (H × V)	
High Voltage		26kV±1.5kV (at zero beam current)	
Speaker		5cm × 9cm, Oval type × 2	
Audio Output		3W	3W +3W
Video / Audio Input [1/2/3]	Video[1/2]	1V(p-p), negative sync, 75Ω, RCA pin jack × 2	---
	Audio [1/2]	500mV(rms) (-4dBs), high impedance, RCA pin jack × 2	---
	Video [1/2/3]	---	1V(p-p), negative sync, 75Ω, RCA pin jack × 3
	Audio [1/2/3]	---	500mV(rms) (-4dBs), high impedance, RCA pin jack × 6
	Component Video [2]	---	RCA pin jack × 3 Y:1V(p-p), positive (negative sync), 75Ω Cb/Cr:0.7V(p-p), 75Ω
Video / Audio Output	Video Audio	1V(p-p), 75Ω, RCA pin jack × 1 500mV(rms)(-4dBs), Low impedance (400Hz when modulated 100%), RCA pin jack × 2	
Headphone		3.5mm stereo mini jack × 1	
Remote Control Unit		RM-C1261-2H (AA/R06/UM-3 battery × 2)	RM-C1281-2H (AA/R06/UM-3 battery × 2)

Design & specifications are subject to change without notice.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

- New chassis design enables use of an interactive on-screen control.
- Pure flat CRT produces fine textured picture in every detail.
- Wide range voltage (110V ~ 240V) for AC power input.
- With AUDIO/VIDEO input terminals.
- I^2C bus control utilizes single chip ICs.
- By means of AUTO PROGRAM, the TV stations can be selected automatically and the TV channels can also be rearranged automatically.
- Built-in OFF TIMER & RETURN +.

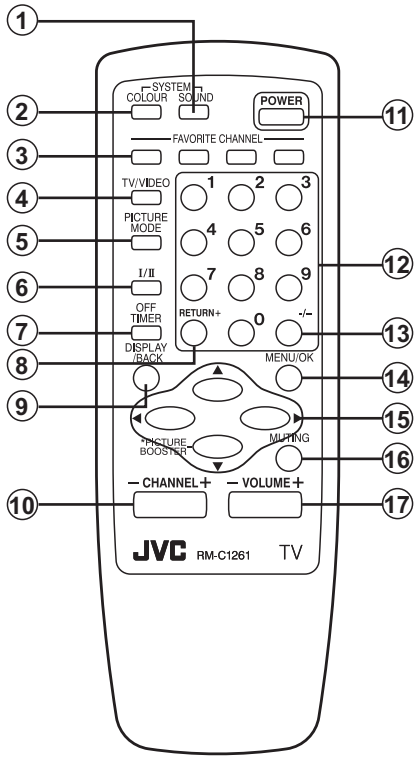
2.2 MAIN DIFFERENCE LIST

⚠	Items	AV-17V214/V	AV-17V314/V
⚠	MAIN PWB ASS'Y	SCW-1618A-H2	SCW-1620-H2
	REMOTE CONTROL UNIT	RM-C1261-2H	RM-C1281-2H

2.3 FUNCTIONS

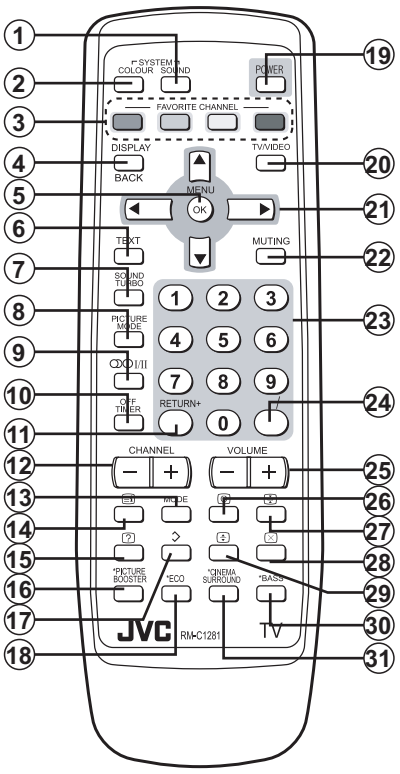
■ REMOTE CONTROL UNIT

RM-C1261-2H [AV-17V214V]



①	SOUND SYSTEM key	⑫	Number keys
②	COLOUR SYSTEM key	⑬	-/-- key
③	FAVORITE CHANNEL keys	⑭	MENU(OK) key
④	TV / VIDEO key	⑮	MENU (▲/▼, ◀/▶) keys
⑤	PICTURE MODE key	⑯	MUTING key
⑥	SOUND SETTING key (BILINGUAL)	⑰	VOLUME (-/+) keys
⑦	OFF TIMER key		
⑧	RETURN + key		
⑨	DISPLAY / BACK key		
⑩	CHANNEL (-/+) keys		
⑪	POWER key		

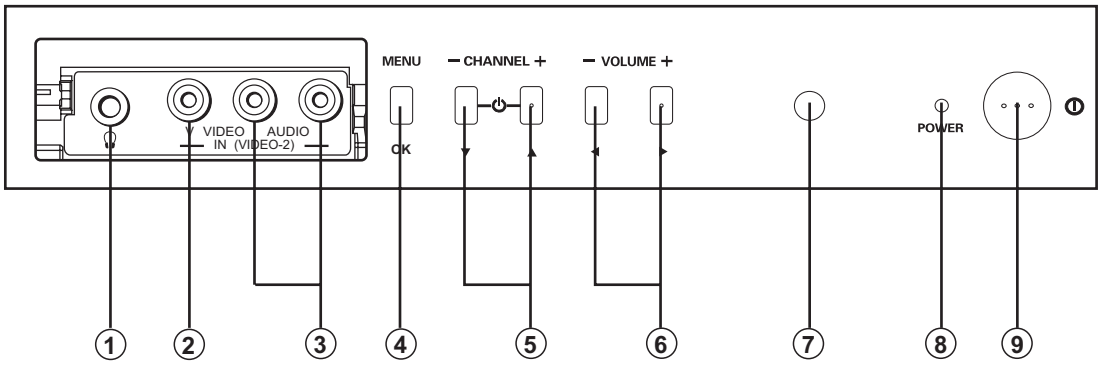
RM-C1281-2H [AV-17V314V]



1	SOUND SYSTEM key
2	COLOUR SYSTEM key
3	FAVORITE CHANNEL keys
4	DISPLAY BACK key
5	MENU (OK) key
6	Not used
7	SOUND TURBO key
8	PICTURE MODE key
9	Not used
10	OFF TIMER key
11	RETURN + key
12	CHANNEL (-/+) keys
13	Not used
14	Not used
15	Not used
16	Not used
17	Not used
18	Not used
19	POWER key
20	TV / VIDEO key
21	MENU (▲/▼, ◀/▶) keys
22	MUTING key
23	Number keys
24	-/-- key
25	VOLUME (-/+) keys
26	Not used
27	Not used
28	Not used
29	Not used
30	Not used
31	CINEMA SURROUND key

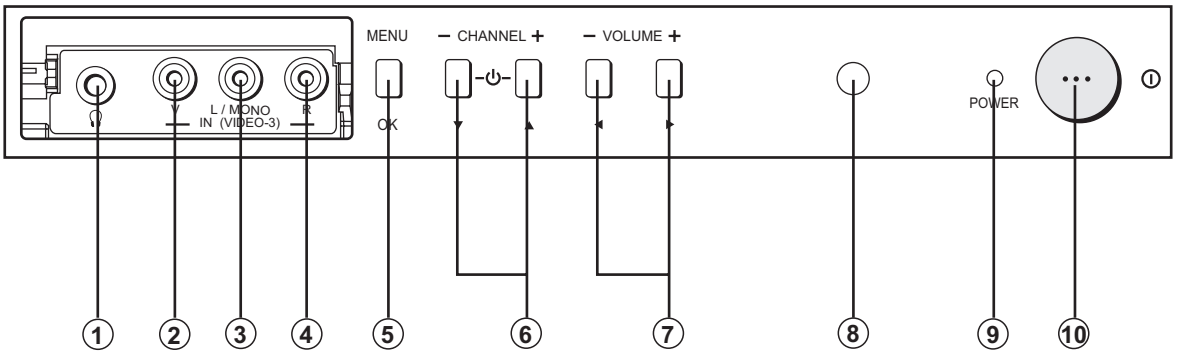
■ FRONT PANEL CONTROLS

[AV-17V214/V]



1	HEADPHONE jack
2	IN (VIDEO-2) : VIDEO
3	IN (VIDEO-2) : AUDIO
4	MENU (OK) button
5	CHANNEL (-/+) buttons
6	VOLUME (-/+) buttons
7	Remote control sensor
8	POWER lamp
9	MAIN POWER button

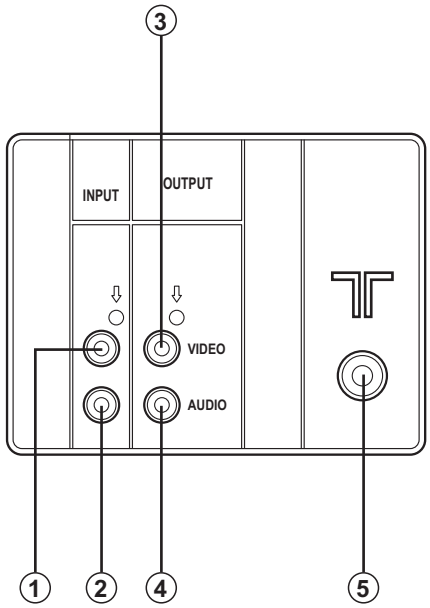
[AV-17V314/V]



① HEADPHONE jack	⑦ VOLUME (-/+) buttons
② IN (VIDEO-3) : VIDEO	⑧ Remote control sensor
③ IN (VIDEO-3) : AUDIO L/MONO	⑨ POWER lamp
④ IN (VIDEO-3) : AUDIO R	⑩ MAIN POWER button
⑤ MENU (OK) button	
⑥ CHANNEL (-/+) buttons	

■ REAR TERMINAL

[AV-17V214/V]



VIDEO-1 INPUT TERMINAL

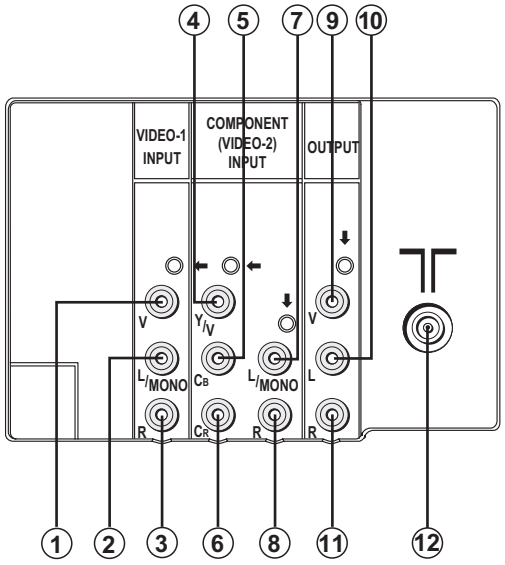
① VIDEO
② AUDIO

OUTPUT TERMINAL

③ VIDEO
④ AUDIO

⑤ Aerial input terminal

[AV-17V314/V]



VIDEO-1 INPUT TERMINAL

①	VIDEO
②	AUDIO L/MONO
③	AUDIO R

COMPONENT (VIDEO-2) INPUT TERMINAL

④	Y/VIDEO
⑤	C_B
⑥	C_R
⑦	AUDIO L/MONO
⑧	AUDIO R

OUTPUT TERMINAL

⑨	VIDEO
⑩	AUDIO L
⑪	AUDIO R
⑫	Aerial input terminal

2.4 MAIN CPU [MAIN PWB : IC701] PIN FUNCTION

Pin No.	Pin name	I/O	Function
1	VssP2	-	GND
2	VssC4	-	GND
3	V1.8C4	I	1.8V (Digital)
4	V3.3A3	I	3.3V
5	VrefP_Sdac	I	3.3V (Positive)
6	VrefN_Sdac	-	GND
7	VrefP_Sdac	I	3.3V (Negative)
8	VrefN_Sdac	-	GND
9	VrefP_Sdac	I	3.3V (Positive)
10	XtalIn	I	24.576MHz for system clock
11	XtalOut	O	24.576MHz for system clock
12	VssA1	-	GND
13	NECK	I	V-guard input/ I/O switch
14	CONT	I	1.8V regulator control
15	V5P1	I	+5V
16	Ph2	-	Phase-2 filter
17	Ph1	-	Phase-1 filter
18	Gnd1	-	GND
19	SecPll	-	SECAM PLL decoupling
20	Dec8G	-	Bandgap decoupling
21	EW	O	East-West drive output
22	VDRB-	O	Vertical drive B output
23	VDRA+	O	Vertical drive A output
24	Vif1	I	Video IF input 1
25	Vif2	I	Video IF input 2
26	Vsc	-	Vertical sawtooth capacitor
27	Iref	I	Reference current input
28	GndIF	-	GND
29	Sif1	I	Sound IF input 1
30	Sif2	I	Sound IF input 2
31	AGC	O	Tuner AGC output
32	EHT	I	EHT/overvoltage protection input
33	Ssif/RefIn/Avl/RefOut	O	Automatic Volume Levelling/ sound IF input / subcarrier reference output / external reference signal input for I signalmixer for DVB operation
34	L3	I	Audio-L3 input (left signal)
35	R3	I	Audio-R3 input (right signal)
36	L-OUT	O	Audio L output
37	R-OUT	O	Audio R output
38	DecsDem	-	Decoupling sound demodulator
39	QssO/AmO/AudeEm	O	QSS intercarrier output / AM output / deemphasis / (front-end audio out)
40	Gnd2	-	GND
41	PllIf	-	IF-PLL loop filter
42	SifAgc	-	AGC sound IF
43	IfVo/FmRo/DvbO	O	Not used
44	NC	O	Not used
45	V8AudioSwitches	I	8V
46	AgcSsif	-	AGC capacitor second sound IF
47	V5P2	I	5V
48	V-OUT	O	Video output
49	L1	I	Audio-L1 input
50	R1	I	Audio-R1 input
51	V3	I	Video V3 input
52	C4	I	Not used
53	Audio2InL	I	Not used
54	Audio2InR	I	Not used
55	V2/Y	I	Video V2 input
56	L2	I	Audio L2 input (Left signal)
57	R2	I	Audio R2 input (right signal)
58	Y3/Cvbs	I	S-Video Y1 input
59	C1	I	S-Video C1 input
60	AudioLsL	O	Audio L output for audio power amplifier
61	AudioLsR	O	Audio R output for audio power amplifier
62	HP-L	O	Not used
63	HP-R	O	Not used
64	CVBSO/PIP	O	CVBS / PIP output
65	SVM	O	Not used
66	FbiSo	I	Flyback input/sandcastle output
67	Hout	O	Horizontal output
68	VssComb	-	GND
69	V5Comb	I	5V
70	Vin/R2/Pr	I	PIP R input
71	Uin/B2/Pb	I	PIP B input
72	Yin/G2/Y	I	PIP G input
73	Ysync	I	Not used
74	Yout	O	Not used
75	Uout/INSSW2	I	YUV insertion input
76	NC	O	Not used
77	INSSW3	I	YUV insertion input
78	R3/Pr	I	Component PR input (Video-2)
79	G3/Y	I	Component Y input (Video-2)
80	B3/Pb	I	Component PB input (Video-2)
81	Gnd3	-	GND
82	V5P3	I	5V
83	BCL	I	Beam current limiter input
84	BLKIN	I	Black current input
85	Rout	O	R output
86	Gout	O	G output
87	Bout	O	B output
88	V3.3A1	I	3.3V
89	RefAdN	-	GND
90	V3.3RefAdP	I	3.3V (Positive)
91	RefAd	I	3.3/2V
92	GndA	-	GND
93	V1.8A	I	1.8V
94	V3.3A2	I	3.3V
95	VssADC	-	GND
96	V1.8ADC	I	1.8V
97	REMOTE	I	Remote control
98	PW_LED	I	POWER LED control
99	PW_LED	I	POWER LED control
100	V1.8C2	I	1.8V
101	VssC2	-	GND
102	TIMER	-	Not used
103	TIMER	-	Not used
104	VER_PROTECT	O	X-ray protect
105	S_REDUCE	O	Sound control
106	P00/I2SDI1	O	Not used
107	POWER	O	SUB POWER control
108	SCL1	I	I2C bus clock
109	SDA1	I/O	I2C bus data
110	V3.3P	I	3.3V
111	ROTATION	O	Rotation
112	3.58/OTHER	O	NTSC 3.58 detection
113	A_MUTE	O	Audio muting
114	4.5/OTHER	O	NTSC 4.43 detection
115	PROT	I	Protect
116	ECO_IN	I	ECO sensor level detection
117	V1.8C1	I	1.8V (Digital)
118	DecV1V8	I	1.8V
119	KEY_IN	I	Key scan data
120	VDO-DET	I	Video DET input
121	VSSC1+P1	-	Digital GND
122	S_V_DET	I	S-Video DET input
123	P25/PWM4	O	GTVA_reset
124	V1.8C3	I	1.8V (Digital)
125	VssC3	-	GND
126	P12/Int2	I	External interrupt
127	SDA0	I/O	I2C bus data (for memory)
128	SCL0	I	I2C bus clock (for memory)

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE [AV-17V314/V]

3.1.1 REMOVING THE REAR COVER

- Unplug the power cord.
  (1) Remove the 5 screws **[A]** and 4 screws **[B]** as shown in Fig.1.
  (2) Withdraw the REAR COVER toward you.

CAUTION:

When reinstalling the rear cover, carefully push it inward after inserting the MAIN PWB into the REAR COVER groove.

3.1.2 REMOVING THE MAIN PW BOARD

- Remove the REAR COVER.
  (1) Slightly raise the both sides of the MAIN PWB by hand.
  (2) Withdraw the MAIN PWB backward.
  (If necessary, take off the wire clamp and connectors, etc.)

3.1.3 REMOVING THE SPEAKER

- Remove the REAR COVER.
  (1) Remove the 2 screws **[C]** as shown in Fig.1.
  (2) Follow the same steps when removing the other hand SPEAKER.

3.1.4 CHECKING THE MAIN PW BOARD

- To check the back side of the MAIN PWB.
  (1) Pull out the MAIN PWB. (Refer to REMOVING THE MAIN PW BOARD).
  (2) Erect the MAIN PWB vertically so that you can easily check its back side.

CAUTIONS:

- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.
- When repairing, connect the DEG. COIL to the DEG. connector on the MAIN PWB.
- When repairing, connect the DEG. COIL to the DEG. connector on the MAIN PWB.

3.1.5 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

3.2 DISASSEMBLY PROCEDURE [AV-17V214/V]

3.2.1 REMOVING THE REAR COVER

- Unplug the power cord.
  (1) Remove the 5 screws **[A]** and 2 screws **[B]** as shown in Fig.1.
  (2) Withdraw the REAR COVER toward you.

CAUTION:

When reinstalling the rear cover, carefully push it inward after inserting the MAIN PWB into the REAR COVER groove.

3.2.2 REMOVING THE MAIN PW BOARD

- Remove the REAR COVER.
  (1) Slightly raise the both sides of the MAIN PWB by hand.
  (2) Withdraw the MAIN PWB backward.
  (If necessary, take off the wire clamp and connectors, etc.)

3.2.3 REMOVING THE SPEAKER

- Remove the REAR COVER.
  (1) Remove the 2 screws **[C]** as shown in Fig.1.
  (2) Follow the same steps when removing the other hand SPEAKER.

3.2.4 CHECKING THE MAIN PW BOARD

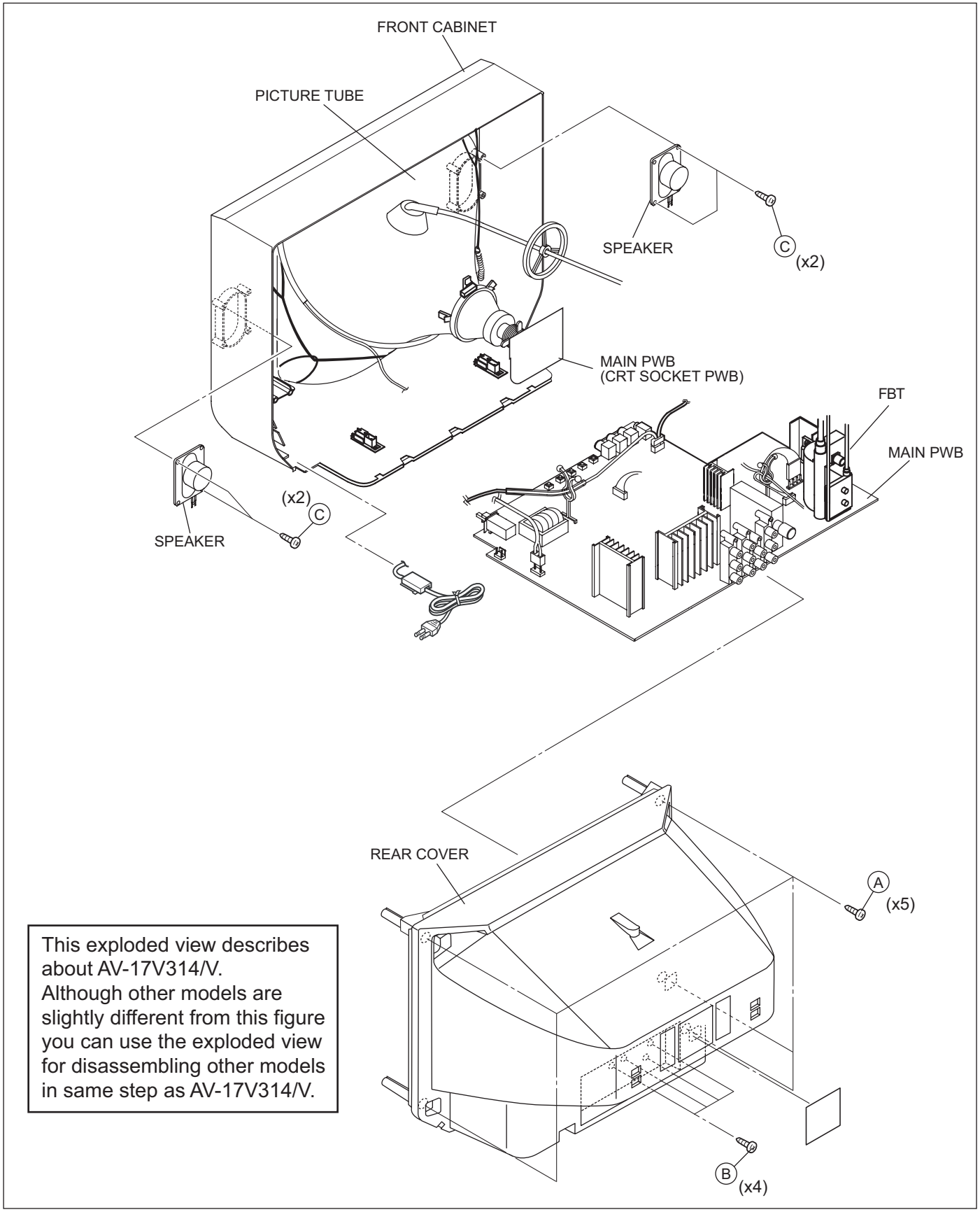
- To check the back side of the MAIN PWB.
  (1) Pull out the MAIN PWB. (Refer to REMOVING THE MAIN PW BOARD).
  (2) Erect the MAIN PWB vertically so that you can easily check its back side.

CAUTIONS:

- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.
- When repairing, connect the DEG. COIL to the DEG. connector on the MAIN PWB.
- When repairing, connect the DEG. COIL to the DEG. connector on the MAIN PWB.

3.2.5 WIRE CLAMPING AND CABLE TYING

(1) Be sure to clamp the wire.
(2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.



This exploded view describes about AV-17V314/V.
Although other models are slightly different from this figure you can use the exploded view for disassembling other models in same step as AV-17V314/V.

Fig.1

3.3 REPLACEMENT OF MEMORY IC

3.3.1 MEMORY IC

This TV uses the following memory IC.

Memory IC: IC702 on MAIN PWB

The memory IC memorizes data for correctly operating the video and deflection circuits. When replacing the memory IC, be sure to use the same type IC written with the initial values of data. In other words, use the specific IC listed in "PRINTED WIRING BOARD PARTS LIST". For its mounting location, refer to "ADJUSTMENT LOCATIONS".

3.3.2 PROCEDURE FOR REPLACING MEMORY IC

1. Power off

Switch the power off and unplug the power cord from the wall outlet.

2. Replacing the memory IC

Replace the memory IC with new one. Be sure to use the memory IC written with the initial data values.

3. Power on

Plug the power cord into the wall outlet and switch the power on.

4. Check and setting of SYSTEM CONSTANT SET:

(1) Press the [DISPLAY] key and the [PICTURE MODE] key on the remote control unit simultaneously.
The SERVICE MENU screen will be displayed.(See Fig.1.)

(2) In the SERVICE MENU, press the [DISPLAY] key and [PICTURE MODE] key simultaneously. Then, the SYSTEM CONSTANT SET screen will be displayed.(See Fig.2.)

(3) Check whether the setting values of the SYSTEM CONSTANT SET are the same as those indicated in Table 1.
If the value is different, select the setting item with the MENU [▲] / [▼] key, and set the correct value with the MENU [◀] / [▶] key.

(4) Press the [DISPLAY] key twice to return to the normal screen.

5. Receive channel setting

Refer to the **OPERATING INSTRUCTIONS** and set the receive channels (channels preset).

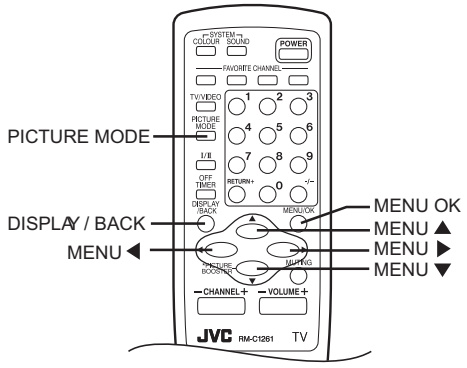
6. User setting

Check the user setting values in Table 2 and Table 3. If setting value is different, set the correct value.
For setting, refer to the **OPERATING INSTRUCTIONS**.

7. Setting of SERVICE MENU

Verify the setting for each setting item in the SERVICE MENU.(See Table 4.) If readjustment is necessary, perform adjustment referring to "ADJUSTMENTS PROCEDURE".

NAME OF REMOTE CONTROL KEYS



SERVICE MENU

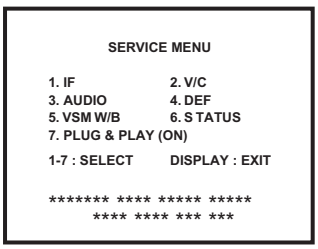
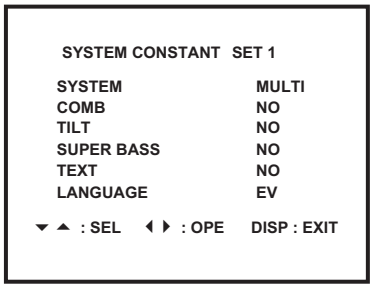
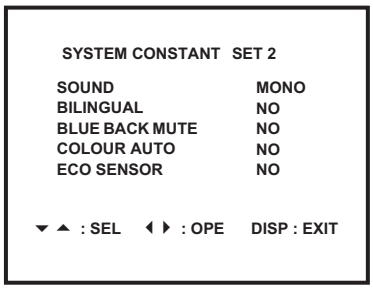


Fig.1

SYSTEM CONSTANT-1



SYSTEM CONSTANT-2



SYSTEM CONSTANT-3

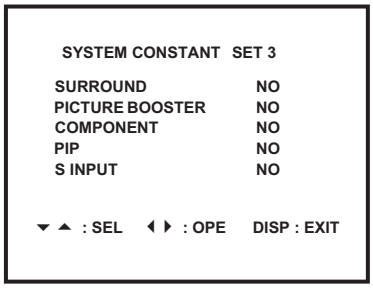


Fig.2

3.3.3 FACTORY SETTING VALUE

■ **SETTING OF SYSTEM CONSTANT SET**

Setting item	Setting content	Setting value	
		AV-17V214/V	AV-17V314/V
SYSTEM	MULTI↔TRIPLE↔PAL↔THAI	MULTI	←
COMB	YES ↔ NO	NO	←
TILT	YES ↔ NO	NO	←
SUPER BASS	YES ↔ NO	NO	←
TEXT	SINGLE ↔ NO ↔ PAT	NO	←
LANGUAGE	E/V	E/V	←
SOUND	STEREO ↔ PB ↔ MONO	MONO	PB
BILINGUAL	YES ↔ NO	NO	←
BLUE BACK MUTE	YES ↔ NO	NO	←
COLOUR AUTO	YES ↔ NO	NO	←
ECO SENSOR	YES ↔ NO	NO	←
SURROUND	YES ↔ NO	NO	YES
PICTURE BOOSTER	YES ↔ NO	NO	←
COMPONENT	YES ↔ NO	NO	YES
PIP	YES ↔ NO	NO	←
S INPUT	YES ↔ NO	NO	←

Table 1

■ **SETTING OF BASIC FUNCTIONS**

Setting item	Setting value
POWER	Off
SUB POWER	On
VOLUME	15
COLOR SYSTEM	PAL
SOUND SYSTEM	B/G
PICTURE MODE (VSM)	BRIGHT
CINEMA SURROUND	OFF [AV-17V314/V]
OFF TIMER	OFF
CHANNEL POSITION	PR1

Table 2

■ **SETTING OF MENU SCREEN**

Setting item	Setting value
INPUT	TV
VNR	AUTO
COMPRESS (16:9)	OFF [AV-17V314/V]
AUTO SHUTOFF	OFF
CHILD LOCK	OFF
BLUE BACK	ON
VIDEO-2 SET	VIDEO [AV-17V314/V]
AUTO PROGRAM	Refer to OPERATING INSTRUCTIONS
EDIT / MANUAL	Refer to OPERATING INSTRUCTIONS
LANGUAGE	VIET
WHITE BALANCE	COOL
TINT	Centre
COLOUR	Centre
BRIGHT	Centre
CONT	Maximum
SHARP	Centre
BALANCE	Centre [AV-17V314/V]
SOUND MODE	DYNAMIC [AV-17V314/V]
SOUND TURBO	OFF [AV-17V314/V]
AI VOLUME	ON
FAVORITE CH RED	PR01
FAVORITE CH GREEN	PR02
FAVORITE CH YELLOW	PR03
FAVORITE CH BLUE	PR04

Table 3

■ **SERVICE MENU SETTING ITEMS**

Setting item	Setting value
1. IF	1. VCO 2. DELAY POINT
2. V/C	1. SCREEN 2. CUTOFF(B/G) 3. WDR(R/G/B) 4. BRIGHT(TV/VDO 1/2/3) 5. CONT(TV/VDO 1/2/3/TV 16:9/VDO 16:9) 6. COLOUR(TV/VDO1/2/3/DVD) 7. TINT(TV/VDO 1/2/3) 8. SHARP [Do not adjust] 9. Y DELAY [Do not adjust] 10. TINT DVD [Do not adjust] 11. AMP T. SHARP
3. AUDIO **[Do not adjust]**	1. DCXO ADJ 2. NICAM lower ERRLIM 3. NICAM upper ERRLIM 4. A2 ID THR 5. MENU EQUALIZER
4. DEF	1. V-SHIFT 2. V-SLOPE 3. V-SIZE 4. H-CENT 5. H-SIZE 6. TRAPEZ 7. EW-PIN 8. COR-UP 9. COR-LO 10. ANGLE 11. BOW 12. V-S.CR 13. V-LIN 14. V-ZOOM 15. V-SCROLL
5. VSM W/B **(BRIGHT/STANDARD/SOFT)** **(COOL/WARM/NORMAL)**	1. BRIGHT 2. CONT 3. COLOUR 4. SHARP 5. HUE 1. R DRIVE 2. G DRIVE 3. B DRIVE
6. STATUS **[Display only]**	
7. PLUG & PLAY(ON) **[Display only]**	

Table 4

3.4 REPLACEMENT OF CHIP COMPONENT

3.4.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

3.4.2 SOLDERING IRON

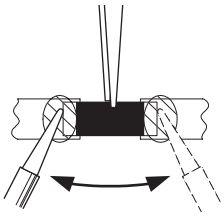
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

3.4.3 REPLACEMENT STEPS

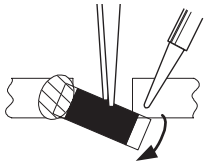
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



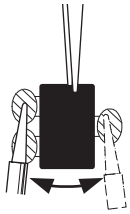
(2) Shift with the tweezers and remove the chip part.



[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.

(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



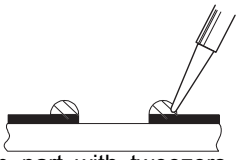
NOTE :

After removing the part, remove remaining solder from the pattern.

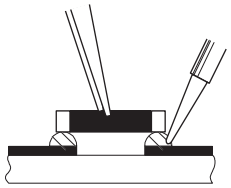
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

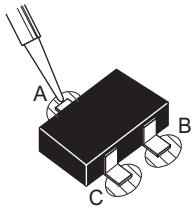


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

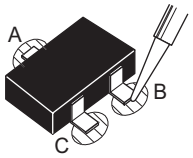


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) **You can make the necessary adjustments for this unit with either the remote control unit or with the adjustment equipment and parts as given below.**
(2) **Adjustment with the remote control unit is made on the basis of the initial setting values, however, the new setting values used for setting the screen to its optimum condition may differ from the initial settings.**
(3) Make sure that AC power is turned on correctly.
(4) Turn on the power for the set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
(5) Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
(6) Never touch any adjustment parts, which are not specified in the list for this variable resistors, transformers, trimmer capacitors, etc.

4.2 PRESETTING BEFORE ADJUSTMENT

Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit.

■ **User mode setting position**

Setting item	Setting value
PICTURE MODE (VSM)	BRIGHT
TINT, COLOUR, BRIGHT,SHARP	Centre
CONT	Maximum
VNR	OFF
BALANCE	Centre
SOUND TURBO	OFF
CINEMA SURROUND	OFF
COMPRESS (16:9)	OFF

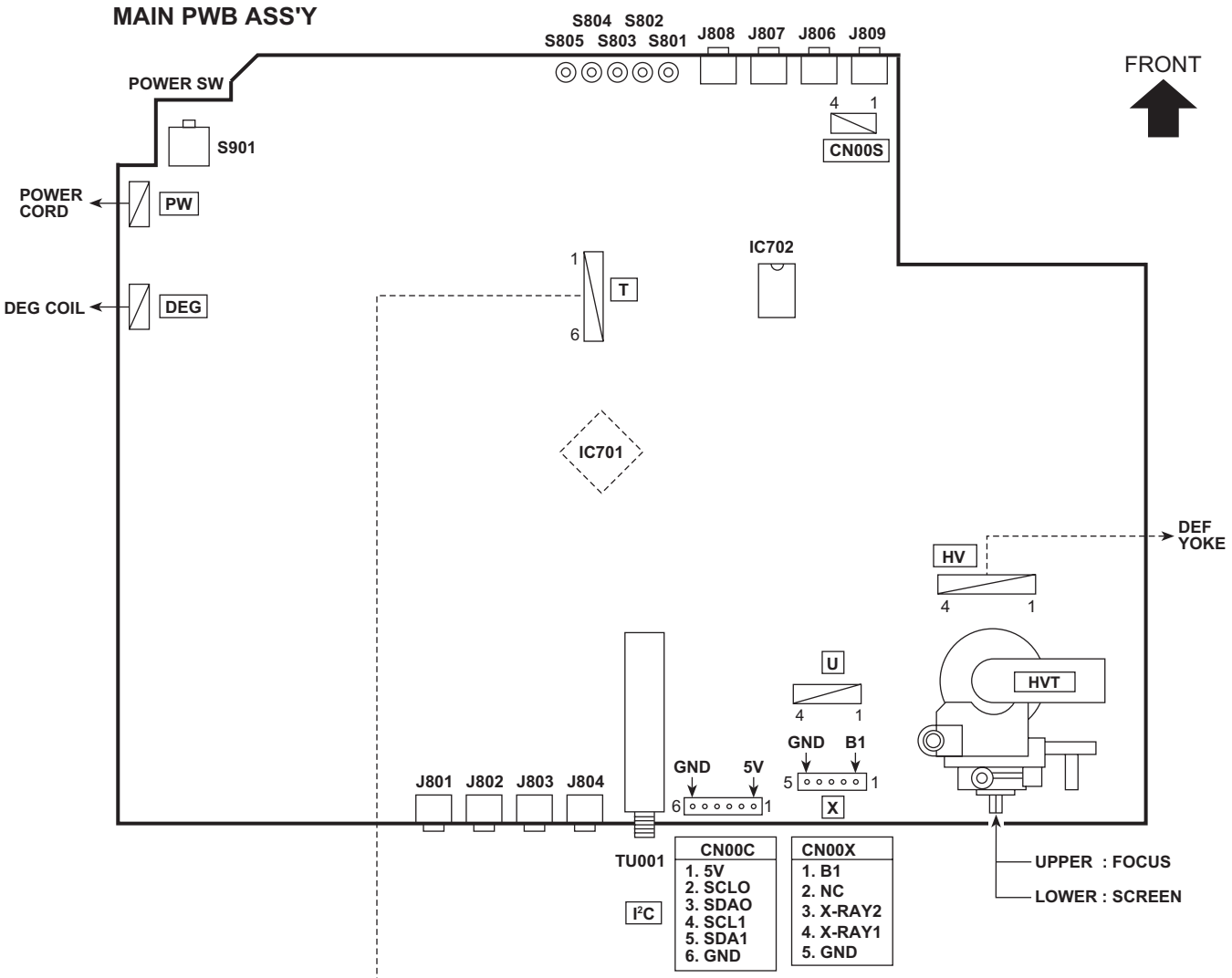
4.3 MEASURING INSTRUMENT AND FIXTURES

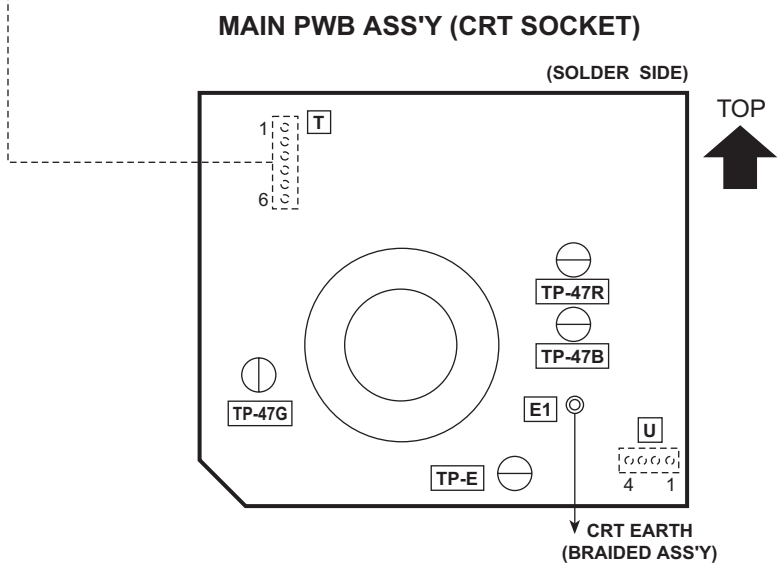
(1) DC voltmeter (or Digital voltmeter)
(2) Oscilloscope
(3) Signal generator (Pattern generator) [PAL/SECAM/NTSC]
(4) Remote control unit

4.4 ADJUSTMENT ITEMS

■ B1 VOLTAGE
■ FOCUS ADJUSTMENT
■ IF CIRCUIT ADJUSTMENTS
• IF VCO adjustment
• DELAY POINT (AGC TAKE-OVER) adjustment
■ VIDEO CIRCUIT ADJUSTMENTS
• WHITE BALANCE (Low light) adjustment
• WHITE BALANCE (High light) adjustment
• SUB BRIGHT adjustment
• SUB CONTRAST adjustment
• SUB COLOUR 1 adjustment
• SUB COLOUR 2 adjustment
• SUB TINT 1 adjustment
• SUB TINT 2 adjustment
■ AUDIO SETTING
■ DEFLECTION CIRCUIT ADJUSTMENTS
• V.SLOPE adjustment
• V.POSITION adjustment
• V.HEIGHT adjustment
• H.POSITION adjustment
• V. LINEARITY adjustment
• H. PARALLEL adjustment
• H.BOW adjustment
■ VSM PRESET SETTING
■ PURITY AND CONVERGENCE ADJUSTMENTS
• PURITY adjustment
• STATIC CONVERGENCE adjustment
• DYNAMIC CONVERGENCE adjustment

4.5 ADJUSTMENT LOCATIONS





4.6 BASIC OPERATION IN SERVICE MENU

Operate the SERVICE MENU with the remote control unit.

4.6.1 SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings:

1. IF	For entering/adjusting the setting values (adjustment values) of the IF circuit.
2. V/C	For entering/adjusting the setting values (adjustment values) of the VIDEO circuit.
3. AUDIO	For entering/adjusting the setting values (adjustment values) of the AUDIO circuit.
4. DEF	For entering/adjusting the setting values (adjustment values) of the DEFLECTION circuit.
5. VSM W/B	For setting the values of STANDARD, SOFT, BRIGHT and COOL, NORMAL, WARM.
6. STATUS	This is not used for service.
7. PLUG & PLAY (ON)	This is not used for service.

4.6.2 BASIC OPERATION IN SERVICE MENU

1. HOW TO ENTER SERVICE MENU

Press the [DISPLAY] key and the [PICTURE MODE] key on the remote control unit simultaneously.
The SERVICE MENU screen will be displayed. (See Fig. 1 on the next page.)

2. SELECTION OF SUB MENU SCREEN

Press one of the keys 1 to 6 on the remote control unit, and select the SUB MENU SCREEN from the SERVICE MENU. (See Fig.1 on the next page.)
SERVICE MENU → SUB MENU

1. IF
2. V/C
3. AUDIO
4. DEF
5. VSM W/B
6. STATUS
7. PLUG & PLAY (ON)

3. METHOD OF SETTING

NOTES:

- Once the setting values are set, they are memorized automatically.
- It must not be adjusted without inputting a signal.

(1) 1. IF

[1.VCO] : Under normal conditions, no adjustment is required.

(a) [1] key	Select **1. IF**.
(b) [1] key	Select **1. VCO**.
(c) [DISPLAY] key	When this is pressed twice, you will return to the SERVICE MENU.

[2.DELAY POINT]

(a) [1] key	Select **1. IF**.
(b) [2] key	Select **2. DELAY POINT**.
(c) MENU [◀] / [▶] key	Adjust the setting value.
(d) [DISPLAY] key	When this is pressed twice, you will return to the SERVICE MENU.

(2) 2. V/C, 3. AUDIO and 4. DEF

(a) [2] ~[4] keys	Select one from **2. V/C**, **3. AUDIO** and **4. DEF**
(b) MENU [▲] / [▼] key	Select setting items.
(c) MENU [◀] / [▶] key	Adjust the setting values of the setting items. Use the number keys on the remote control unit for setting the WHITE BALANCE. For the setting, refer to each item concerned.
(d) [DISPLAY] key	When this is pressed, you will return to the SERVICE MENU.

(3) 5. VSM W/B

(a) [5] keys	Select **5. VSM W/B**.
(b) MENU [OK] key	Select preset items.
(c) MENU [▲] / [▼] key	Adjust setting items.
(d) MENU [◀] / [▶] key	Adjust the setting values of the setting items.
(e) [DISPLAY] key	When this is pressed, you will return to the SERVICE MENU.

(4) 6. STATUS

This is for display only.

(5) 7. PLUG & PLAY (ON)

This is not used for service.

4. Release of SERVICE MENU

After completing the setting, return to the SERVICE MENU by pressing the [DISPLAY] key, then again press the [DISPLAY] key to return to the normal screen.

4.6.3 SERVICE MENU FLOW CHART

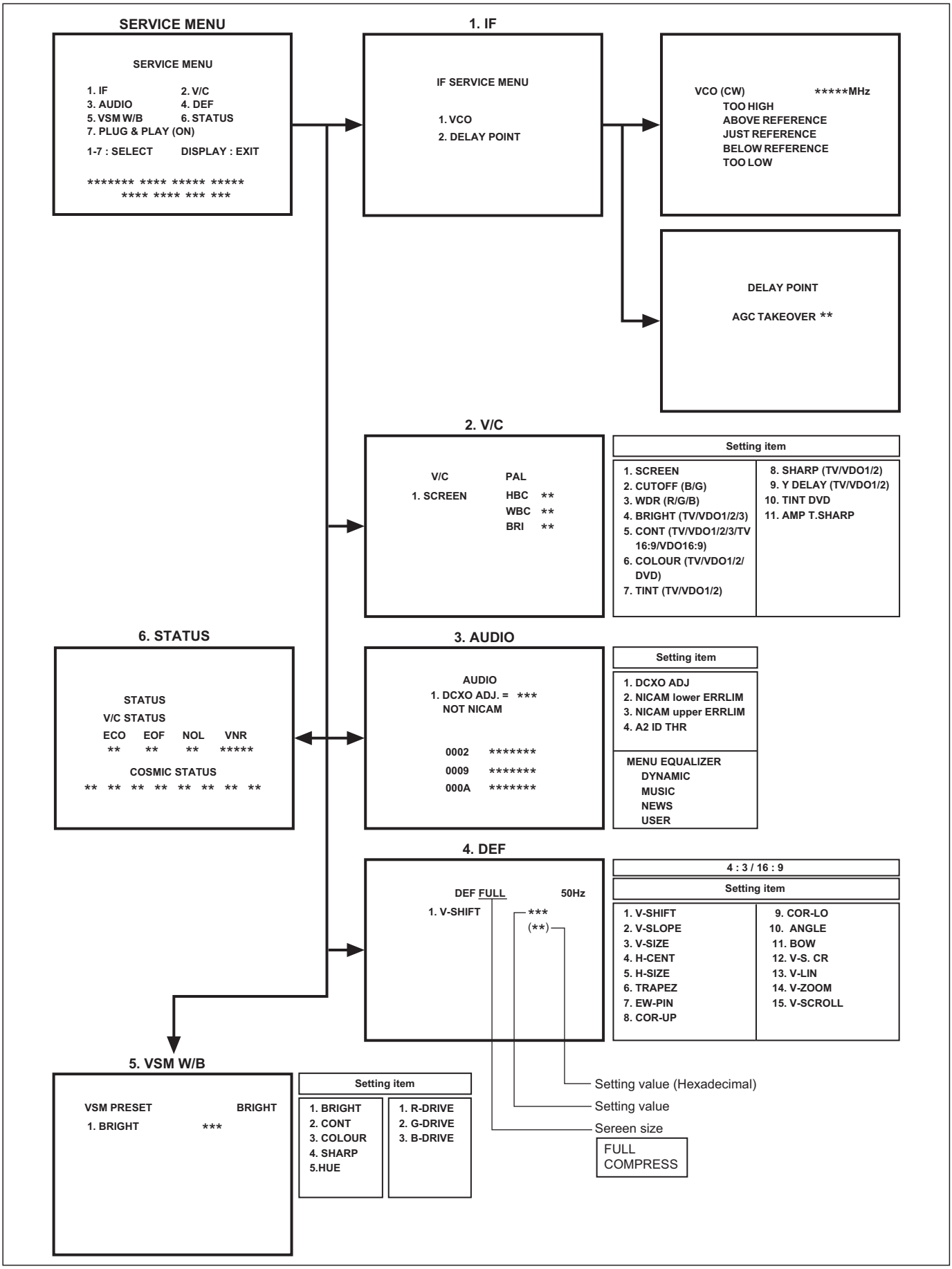


Fig.1

4.7 ADJUSTMENT PROCEDURE

4.7.1 B1 VOLTAGE

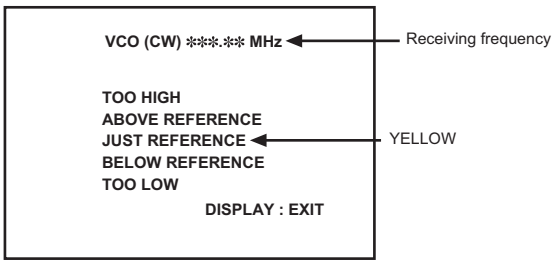
Item	Measuring instrument	Test point	Adjustment part	Description
B1 VOLTAGE check	Signal generator DC voltmeter	B1 (pin 1) GND (pin 5) [CN00X connector in MAIN PWB]		(1) Receive a PAL black and white signal. (2) Connect a DC voltmeter between B1 and GND (between pins 1 and 5 of the connector CN00X). (3) Make sure that the voltage is **DC117.5V** ± **3V** [AV-17V214/V] or **DC115.0V** ± **2V** [AV-17V314/V].

4.7.2 FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator		FOCUS VR [In HVT]	**Notes:** • Set PICTURE MODE (VSM) to "BRIGHT". • The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is affected by the FOCUS adjustment.) If any aeviation in CONVERGENCE is found, PURITY must be adjusted to restore the convergence. (1) Receive a PAL crosshatch signal. (2) Adjust the **FOCUS VR** so that the vertical and horizontal lines will be clear and in fine detail on the screen. (3) Make sure that the picture is in focus even when the screen gets darkened.

4.7.3 IF CIRCUIT ADJUSTMENTS

Item	Measuring instrument	Test point	Adjustment part	Description
IF VCO check	Remote control unit		[1. IF] 1. VCO (CW)	**Note:** • Under normal conditions, no adjustment is required. (1) Receive a PAL broadcast signal. (2) Select **1. IF** from the SERVICE MENU. (3) Select **1. VCO**. (4) Check the characters colour of the **JUST REFERENCE** displayed to **yellow**. (5) Press the [DISPLAY] key three times to return to normal screen.



Item	Measuring instrument	Test point	Adjustment part	Description
DELAY POINT (AGC TAKE-OVER) adjustment	Remote control unit		[1. IF] 2. DELAY POINT	(1) Receive a PAL black and white broadcast signal (colour off). (2) Select **1. IF** from the SERVICE MENU. (3) Select **2. DELAY POINT**. (4) Adjust in order to eliminate any noise or beat from the image. Any increase above the initial value produces the noise and any decrease below it produces the beat. (5) Press the [DISPLAY] key three times to return to the normal screen. (6) Turn to other channels and make sure that there are no irregularities.

[AV-17V214/V]

Adjustment item	Initial setting value			
	NTSC 3.58		OTHERS	
	VHF	UHF	VHF	UHF
2. DELAY POINT (AGC TAKE-OVER)	33	33	33	33

[AV-17V314/V]

Adjustment item	Initial setting value			
	NTSC 3.58		OTHERS	
	VHF	UHF	VHF	UHF
2. DELAY POINT (AGC TAKE-OVER)	32*	32*	32*	32*

4.7.4 VIDEO CIRCUIT ADJUSTMENTS

- The setting (adjustment) using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- Do not change the initial setting values of the setting (adjustment) items not listed in "ADJUSTMENT PROCEDURE".
- The initial setting values in parenthesis ( ) are fixed offset values, needing no further adjustment.

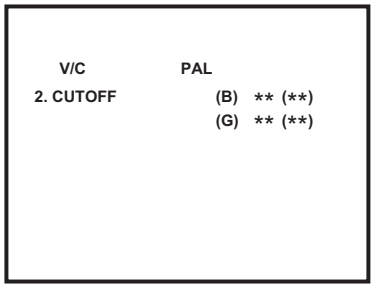
[AV-17V214/V]

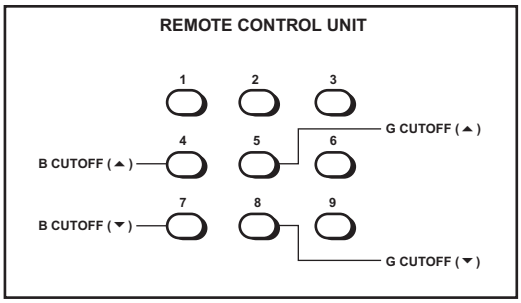
Adjustment item		Variable range	Initial setting value			
			PAL	SECAM	NTSC3.58	NTSC4.43
1. SCREEN	BRI	0 ~ 63	32	32	32	32
2. CUTOFF	B	0 ~ 63(-32 ~ +31)	11	11	11	11
	G	0 ~ 63(-32 ~ +31)	7	7	7	7
3. WDR	R	0 ~ 63(-32 ~ +31)	32	32	32	32
	G	0 ~ 63(-32 ~ +31)	32	32	32	32
	B	0 ~ 63(-32 ~ +31)	45	45	45	45
4. BRIGHT	RF	0 ~ 63(-32 ~ +31)	39	39	39	39
	VIDEO 1(COMPOSITE)	(-32 ~ +31)	(+3)	(+3)	(+3)	(+3)
	VIDEO 2(COMPONENT)	(-32 ~ +31)	(+5)	(+5)	(+5)	(+5)
5. CONT.	RF	0 ~ 63	32	32	32	32
	VIDEO	(-32 ~ +31)	(+1)	(+1)	(+1)	(+1)
6. COLOUR	RF	0 ~ 63(-32 ~ +31)	42	32	37	(0)
	VIDEO	(-32 ~ +31)	(0)	(+1)	(+2)	(+2)
7. TINT	RF	0 ~ 63(-32 ~ +31)	---	---	27	(+2)
	VIDEO	(-32 ~ +31)	---	---	(+4)	(+4)
8. SHARP	RF	0 ~ 63	48	48	48	48
	VIDEO	0 ~ 63	48	48	48	48
9. Y DELAY	RF	0 ~ 15	5	5	7	7
	VIDEO	0 ~ 15	5	5	5	5
10. TINT DVD	VIDEO	0 ~ 63	34	33	33	33
11. AMP T.SHARP	RF, VIDEO	0 ~ 63	0	0	0	0

[AV-17V314/V]

Adjustment item		Variable range	Initial setting value					
			PAL	SECAM	NTSC3.58	NTSC4.43	COMPONENT (V-2)	
							525i	625i
1. SCREEN	BRI	0 ~ 63	32	32	32	32	32	32
2. CUTOFF	B	0 ~ 63(-32 ~ +31)	11	11	11	11	(-3)	(-3)
	G	0 ~ 63(-32 ~ +31)	7	7	7	7	(+32)	(+32)
3. WDR	R	0 ~ 63(-32 ~ +31)	32	32	32	32	(0)	(0)
	G	0 ~ 63(-32 ~ +31)	32	32	32	32	(0)	(0)
	B	0 ~ 63(-32 ~ +31)	45	45	45	45	(0)	(0)
4. BRIGHT	RF	0 ~ 63(-32 ~ +31)	39	39	39	39	---	---
	VIDEO 1(COMPOSITE)	(-32 ~ +31)	(0)	(0)	(0)	(0)	---	---
	VIDEO 2(COMPONENT)	(-32 ~ +31)	(0)	(0)	(0)	(0)	(+1)	(+1)
	VIDEO 3(COMPOSITE)	(-32 ~ +31)	(0)	(0)	(0)	(0)	---	---
5. CONT.	RF	0 ~ 63	32	32	32	32	---	---
	VIDEO	(-32 ~ +31)	(-2)	(-2)	(-2)	(-2)	(-4)	(-4)
	RF 16:9	(-32 ~ +31)	(-2)	(-2)	(-2)	(-2)	---	---
	VIDEO 16:9	(-32 ~ +31)	---	---	---	---	---	---
6. COLOUR	RF	0 ~ 63(-32 ~ +31)	42	32	37	(-3)	---	---
	VIDEO	(-32 ~ +31)	(+4)	(+2)	(+2)	(-3)	(+3)	(-3)
7. TINT	RF	0 ~ 63(-32 ~ +31)	---	---	27	(+3)	---	---
	VIDEO	(-32 ~ +31)	---	---	(+1)	(-1)	---	---
8. SHARP	RF	0 ~ 63	50	50	50	50	---	---
	VIDEO	0 ~ 63	57	57	57	57	40	40
9. Y DELAY	RF	0 ~ 15	2	4	3	3	---	---
	VIDEO	0 ~ 15	2	4	3	3	---	---
10. TINT DVD	VIDEO	0 ~ 63	33	31	32	32	---	---
	COMPONENT	(-32 ~ +31)	---	---	---	---	(0)	(-1)
11. AMP T.SHARP	RF, VIDEO	0 ~ 63	0	0	0	0	0	0

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (Low light) adjustment	Signal generator Remote control unit		[2. V/C] 2. CUTOFF (B) 2. CUTOFF (G) SCREEN VR [In HVT]	**Note:** • Set PICTURE MODE (VSM) to "BRIGHT". **- COMPOSITE WHITE BALANCE -** (1) Receive a PAL black and white signal (colour off). (2) Select **2. V/C** from the SERVICE MENU. (3) Select **2. CUTOFF (B)** and **(G)**. (4) Set each value to initial setting value with the **[4]** / **[7]** keys and **[5]** / **[8]** keys. (5) Turn the **SCREEN VR** fully counterclockwise, then slowly turn it clockwise to where a red, blue or green colour is faintly visible. (6) Use the **[4]** / **[7]** and **[5]** / **[8**] keys to adjust so that the other 2 colours appear white. (7) Turn the **SCREEN VR** to where the single horizontal line glows faintly. (8) Press the [DISPLAY] key twice to return to the normal screen. **- COMPONENT WHITE BALANCE -** (1) Receive a PAL component black and white signal (colour off). (2) Select VIDEO-2 SET from the MENU and set VIDEO-2 SET to COMPONENT. (3) Adjust COMPONENT WHITE BALANCE in the same way as "COMPOSITE WHITE BALANCE".





[AV-17V214/V]

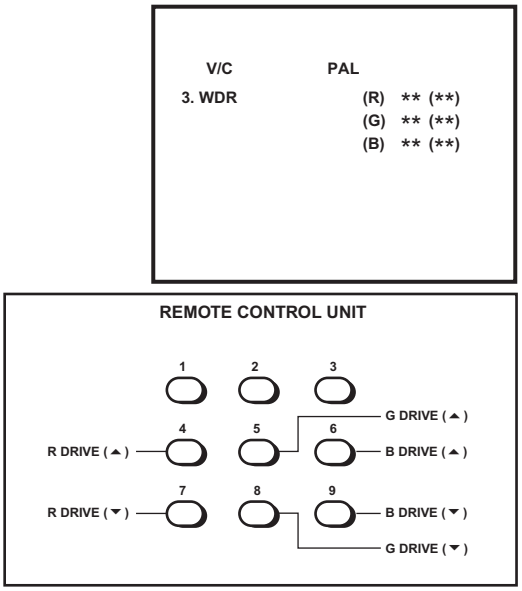
Adjustment Item		Variable range	Initial setting value
			COMPOSITE
2. CUT OFF	B	0 ~ 63 (-32~+31)	11
	G	0 ~ 63 (-32~+31)	7

[AV-17V314/V]

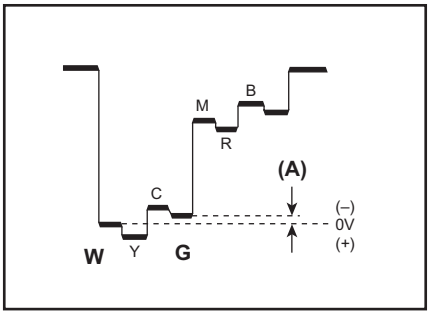
Adjustment Item		Variable range	Initial setting value	
			COMPOSITE	COMPONENT
2. CUT OFF	B	0 ~ 63 (-32~+31)	11	(-3)
	G	0 ~ 63 (-32~+31)	7	(+32)

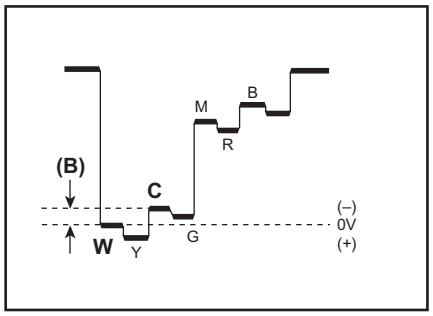
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>WHITE BALANCE (High light) adjustment</td><td>Signal generator

Remote control unit</td><td></td><td>[2. V/C]
3. WDR (R)
3. WDR (G)
3. WDR (B)</td><td rowspan="2">Notes:
• Proceed to the following adjustment after having completed the WHITE BALANCE (Low light) adjustment.
• Set PICTURE MODE (VSM) to "BRIGHT".
(1) Receive a PAL black and white signal (colour off).
(2) Select 2. V/C from the SERVICE MENU.
(3) Select 3. WDR (R), (G) and (B).
(4) Set each value to initial setting value with the [4] to [9] keys.
(5) Use the [4] to [9] keys to produce a white screen.
(6) Press the [DISPLAY] key twice to return to the normal screen.

[AV-17V214/V]
<table><tr><th colspan="2">Adjustment Item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td rowspan="3">3. WDR</td><td>R</td><td>0 ~ 63</td><td>32*</td></tr><tr><td>G</td><td>0 ~ 63</td><td>32</td></tr><tr><td>B</td><td>0 ~ 63</td><td>45*</td></tr></table>[AV-17V314/V]
<table><tr><th colspan="2">Adjustment Item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td rowspan="3">3. WDR</td><td>R</td><td>0 ~ 63</td><td>32*</td></tr><tr><td>G</td><td>0 ~ 63</td><td>32</td></tr><tr><td>B</td><td>0 ~ 63</td><td>45*</td></tr></table></td></tr>
<tr><td colspan="4"> 
</td></tr>
<tr><td>SUB BRIGHT adjustment</td><td>Remote control unit</td><td></td><td>[2. V/C]
4. BRIGHT</td><td>Notes:
• Proceed to the following adjustment after having completed the WHITE BALANCE (Low light) and WHITE BALANCE (High light) adjustment.
• Set PICTURE MODE (VSM) to "BRIGHT".
(1) Receive a PAL broadcast.
(2) Select 2. V/C from the SERVICE MENU.
(3) Select 4. BRIGHT.
(4) Set the initial setting value.
(5) If the brightness is not best with the initial setting value, make fine adjustment until you get the best brightness.
(6) Press the [DISPLAY] key twice to return to the normal screen.</td></tr>
<tr><td>SUB CONTRAST adjustment</td><td>Remote control unit</td><td></td><td>[2. V/C]
5. CONT</td><td>Notes:
• Proceed to the following adjustment after having completed the SUB BRIGHT adjustment.
• Set PICTURE MODE (VSM) to "BRIGHT".
(1) Receive a PAL broadcast.
(2) Select 2. V/C from the SERVICE MENU.
(3) Select 5. CONT.
(4) Set the initial setting value.
(5) If the contrast is not best with the initial setting value, make fine adjustment until you get the best contrast.
(6) Press the [DISPLAY] key twice to return to the normal screen.</td></tr>
</table>

Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOUR 1 adjustment	Remote control unit		[2. V/C] 6. COLOUR	**[Method of adjustment without measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to "BRIGHT". **- PAL COLOUR -** (1) Receive a PAL broadcast. (2) Select **2. V/C** from the SERVICE MENU. (3) Select **6. COLOUR**. (4) Set the initial setting value for PAL COLOUR. (5) If the colour is not best with the initial setting value, adjust until you get the best colour. (6) Press the [DISPLAY] key twice to return to the normal screen. **- SECAM COLOUR -** (1) Receive a SECAM broadcast. (2) Press the [COLOUR SYSTEM] key to select the SECAM colour system. (3) Adjust SECAM COLOUR in the same way as for "PAL COLOUR". **- NTSC 3.58 COLOUR -** (1) Receive a NTSC 3.58MHz broadcast. (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Adjust NTSC 3.58 COLOUR in the same way as for "PAL COLOUR". **- NTSC 4.43 COLOUR -** When adjustment is done for NTSC 3.58 COLOUR, appropriate values are automatically set for NTSC 4.43 COLOUR.
SUB COLOUR 2 adjustment	Signal generator Oscilloscope Remote control unit	TP-47G TP-E [CRT SOCKET PWB]	[2. V/C] 6. COLOUR	**[Method of adjustment using measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to "BRIGHT". **- PAL COLOUR -** (1) Receive a PAL colour bar signal (full field colour bar 75% white). (2) Select **2. V/C** from the SERVICE MENU. (3) Select **6. COLOUR**. (4) Set the initial setting value of PAL COLOUR. (5) Connect the oscilloscope between TP-47G and TP-E. (6) Adjust PAL COLOUR to set the value **(A)** in the figure to **+15V**. **- SECAM COLOUR -** (1) Receive a SECAM colour bar signal (colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the SECAM colour system. (3) Set the initial setting value of SECAM COLOUR. (4) Adjust SECAM COLOUR to set the value **(A)** in the figure to **+4V**. **- NTSC 3.58 COLOUR -** (1) Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Set the initial setting value of NTSC 3.58 COLOUR. (4) Adjust NTSC 3.58 COLOUR to set the value **(A)** in the figure to **+4V**. **- NTSC 4.43 COLOUR -** When adjustment is done for NTSC 3.58 COLOUR, appropriate values are automatically set for NTSC 4.43 COLOUR.



Item	Measuring instrument	Test point	Adjustment part	Description
SUB TINT 1 adjustment	Signal generator Remote control unit		[2. V/C] 7. TINT	**[Method of adjustment without measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to "BRIGHT". **- NTSC 3.58 TINT -** (1) Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Select **2. V/C** from the SERVICE MENU. (4) Select **7. TINT**. (5) Set the initial setting value of NTSC 3.58. (6) If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint. (7) Press the [DISPLAY] key twice to return to the normal screen. **- NTSC 4.43 TINT -** When adjustment is done for NTSC 3.58 TINT, appropriate values are automatically set for NTSC 4.43 TINT.
SUB TINT 2 adjustment	Signal generator Oscilloscope Remote control unit	TP-47G TP-E [CRT SOCKET PWB]	[2. V/C] 7. TINT	**[Method of adjustment using measuring instrument]** **Notes:** • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • Set PICTURE MODE (VSM) to "BRIGHT". **- NTSC 3.58 TINT -** (1) Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Select **2. V/C** from the SERVICE MENU. (4) Select **7. TINT**. (5) Set the initial setting value of NTSC 3.58. (6) Connect the oscilloscope between TP-47G and TP-E. (7) Adjust NTSC 3.58 TINT to set the value **(B)** in the figure to **+4V**. (8) Press the [DISPLAY] key twice to return to the normal screen. **- NTSC 4.43 TINT -** When adjustment is done for NTSC 3.58 TINT, appropriate values are automatically set for NTSC 4.43 TINT.
				

4.7.5 AUDIO SETTING

This submenu is for display only, no adjustment is required.

[AV-17V214/V]

Function	Item	100Hz	300Hz	1kHz	3kHz	8kHz
MENU EQUALIZER	DYNAMIC	+4	+3	-10	+3	+4
	MUSIC	+7	+2	+5	+2	+7
	NEWS	-6	+1	+6	+1	-6
	USER	0	0	0	0	0

[AV-17V314/V]

Function	Item	100Hz	300Hz	1kHz	3kHz	8kHz
MENU EQUALIZER	DYNAMIC	+2	+2	-5	+3	+4
	MUSIC	+7	+2	+5	+2	+7
	NEWS	-6	+1	+6	+1	-6
	USER	0	0	0	0	0

4.7.6 DEFLECTION CIRCUIT ADJUSTMENTS

- The setting (adjustment) using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- When performing deflection circuit adjustment, adjusts PAL signal (fv: 50 Hz) in 4:3 mode and 16:9 mode respectively, and adjust the NTSC signal (fv: 60 Hz) similarly.

Note:

Proceed to the following adjustment after having completed the adjustments of SUB BRIGHT and SUB PICTURE.

■ **4. DEF**

[AV-17V214V]

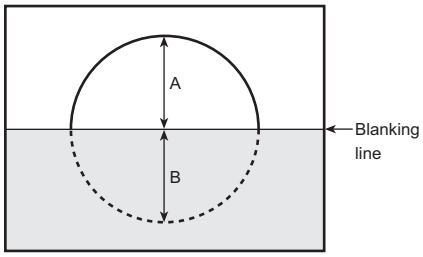
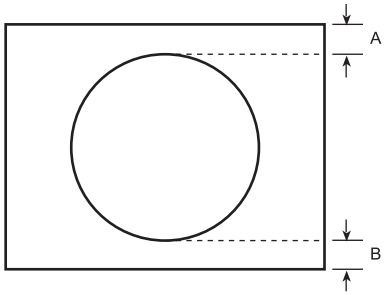
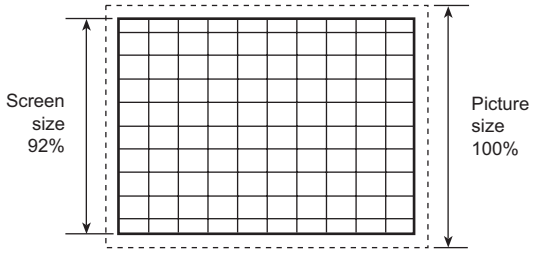
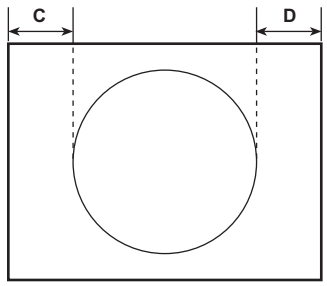
Adjustment item	Variable range		Initial setting value	
			4:3	
	4:3 50Hz	Others	50Hz	60Hz
1. V-SHIFT	0 ~ 63	-32 ~ +31	0*	0*
2. V-SLOPE	0 ~ 63	-32 ~ +31	+32*	0*
3. V-SIZE	0 ~ 63	-32 ~ +31	+38*	0*
4. H-CENT	0 ~ 63	-32 ~ +31	+32*	0*
5. H-SIZE	0 ~ 63	-32 ~ +31	0	0
6. TRAPEZ	0 ~ 63	-32 ~ +31	0	0
7. EW-PIN	0 ~ 63	-32 ~ +31	0	0
8. COR-UP	0 ~ 63	-32 ~ +31	0	0
9. COR-LO	0 ~ 63	-32 ~ +31	0	0
10. ANGLE	0 ~ 63	-32 ~ +31	+32*	0*
11. BOW	0 ~ 63	-32 ~ +31	+32*	0*
12. V-S.CR	0 ~ 63	-32 ~ +31	+32*	0*
13. V-LIN	0 ~ 63	-32 ~ +31	+32*	0*
14. V-ZOOM	0 ~ 63	-32 ~ +31	(+30)	(0)
15. V-SCROLL	0 ~ 63	-32 ~ +31	(+32)	(0)

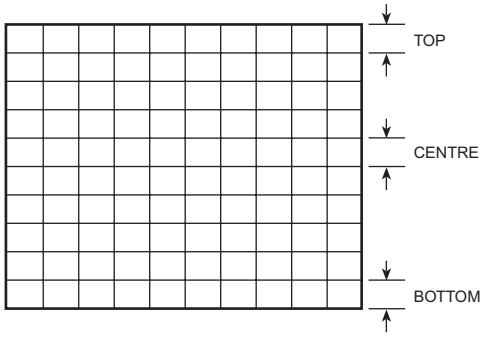
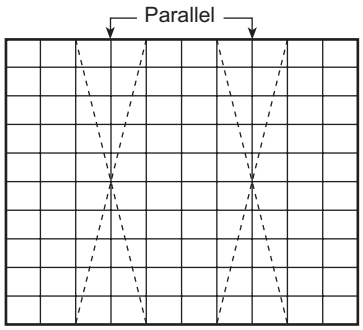
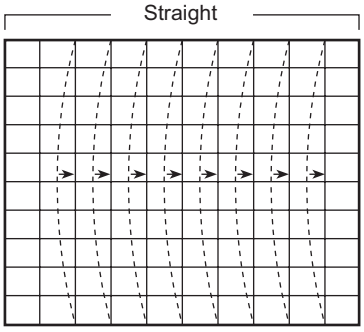
[AV-17V314V]

Adjustment item	Variable range		Initial setting value			
			4:3		COMPRESS (16:9)	
	4:3 50Hz	Others	50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
2. V-SLOPE	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
3. V-SIZE	0 ~ 63	-32 ~ +31	+38*	0*	-14*	0*
4. H-CENT	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
5. H-SIZE	0 ~ 63	-32 ~ +31	0	0	0	0
6. TRAPEZ	0 ~ 63	-32 ~ +31	0	0	0	0
7. EW-PIN	0 ~ 63	-32 ~ +31	0	0	0	0
8. COR-UP	0 ~ 63	-32 ~ +31	0	0	0	0
9. COR-LO	0 ~ 63	-32 ~ +31	0	0	0	0
10. ANGLE	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
11. BOW	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
12. V-S.CR	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
13. V-LIN	0 ~ 63	-32 ~ +31	+32*	0*	0*	0*
14. V-ZOOM	0 ~ 63	-32 ~ +31	(+30)	(0)	-13*	+3*
15. V-SCROLL	0 ~ 63	-32 ~ +31	(+32)	(0)	(0)	(0)

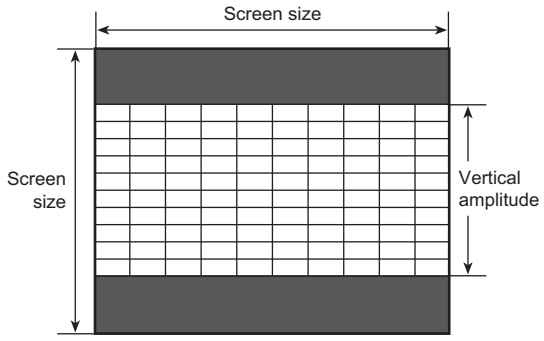
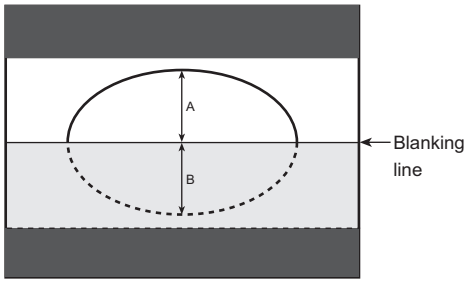
NOTE: The value with an asterisk * is variable for adjustment. The values in parenthesis ( ) are fixed values.

■ **COMPRESS: OFF (4:3)**

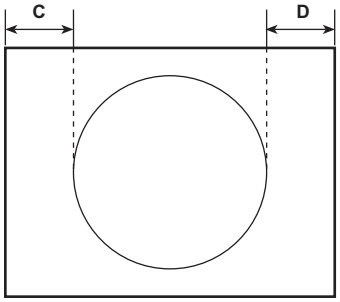
Item	Measuring instrument	Test point	Adjustment part	Description
V. SLOPE adjustment	Signal generator Remote control unit		[4. DEF] 2. V-SLOPE	**- PAL V. SLOPE -** (1) Receive a PAL circle pattern signal of vertical frequency 50Hz. (2) Select **4. DEF** from the SERVICE MENU. (3) Select **2. V-SLOPE**. (4) Set the initial setting value of **2. V-SLOPE**. (5) Adjust **2. V-SLOPE** to make "**A = B**". (6) Press the [DISPLAY] key to return to SERVICE MENU screen. **- NTSC V. SLOPE -** (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V-SLOPE in the same way as for "PAL V-SLOPE".
				
V. POSITION adjustment	Signal generator Remote control unit		[4. DEF] 1. V-SHIFT	**- PAL V. POSITION -** (1) Receive a PAL circle pattern signal of vertical frequency 50Hz. (2) Select **1. V-SHIFT**. (3) Set the initial setting value of **1. V-SHIFT**. (4) Adjust **1. V-SHIFT** to make "**A = B**". **- NTSC V. POSITION -** (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. POSITION in the same way as for "PAL V. POSITION".
				
V. HEIGHT adjustment	Signal generator Remote control unit		[4. DEF] 3. V-SIZE 14. V-ZOOM	**- PAL V. HEIGHT -** (1) Receive a PAL crosshatch signal. (2) Select **3. V-SIZE**. (3) Set the initial setting value of **3. V-SIZE**. (4) Select **14. V-ZOOM**. (5) Set the initial setting value of **14. V-ZOOM**. (6) Adjust **14. V-ZOOM** to make the vertical screen size to 92% of the picture size. **- NTSC V. HEIGHT -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC V. HEIGHT in the same way as for "PAL V. HEIGHT".
				
H. POSITION adjustment	Signal generator Remote control unit		[4. DEF] 4. H-CENT	**- PAL H. POSITION -** (1) Receive a PAL circle pattern signal. (2) Select **4. H-CENT**. (3) Set the initial setting value of **4. H-CENT**. (4) Adjust **4. H-CENT** to make "**C = D**". **- NTSC H. POSITION -** (1) Receive a NTSC circle pattern signal. (2) Make similar adjustment of NTSC H. POSITION in the same way as for "PAL H. POSITION".
				

Item	Measuring instrument	Test point	Adjustment part	Description
V.LINEARITY adjustment	Signal generator Remote control unit		[4. DEF] 12. V-S. CR 13. V-LIN	**- PAL V. LINEARITY -** (1) Receive a PAL crosshatch signal. (2) Select **12. V-S.CR**. (3) Set the initial setting value of **12. V-S. CR**. (4) Select **13. V-LIN**. (5) Set the initial setting value of **13. V-LIN**. (6) Adjust **12. V-S. CR** and **13. V-LIN** so that the spaces of each line on TOP, CENTRE and BOTTOM become uniform. **- NTSC V. LINEARITY -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC V-S. CR in the same way as for "PAL V-S. CR".
				
H. PARALLEL adjustment	Signal generator Remote control unit		[4.DEF] 10. ANGLE	**- PAL H. PARALLEL -** (1) Receive a PAL crosshatch signal. (2) Select **10. ANGLE**. (3) Set the initial setting value of **10. ANGLE**. (4) Adjust **10. ANGLE** to optimize the trapezium distortion at the centre of the screen. **- NTSC H. PARALLEL -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC H. PARALLEL in the same way as for "PAL H. PARALLEL".
				
H. BOW adjustment	Signal generator Remote control unit		[4.DEF] 11. BOW	**- PAL H. BOW -** (1) Receive a PAL crosshatch signal. (2) Select **11. BOW**. (3) Set the initial setting value of **11. BOW**. (4) Adjust **11. BOW** to optimize the horizontal arc distortion. **- NTSC H. BOW -** (1) Receive a NTSC crosshatch signal. (2) Make similar adjustment of NTSC H. BOW in the same way as for "PAL H. BOW". (3) Press the [DISPLAY] key twice to return to the normal screen.
				

■ **COMPRESS : ON (16:9)**
[AV-17V314/V]

Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT adjustment	Signal generator Remote control unit		[4.DEF] 14. V. ZOOM 3. V-SIZE	**- PAL V. HEIGHT -** (1) Receive a PAL crosshatch signal of vertical frequency 50Hz. (2) Press the [MENU] key and select **PICTURE**. (3) Select **PICTURE FEATURES**. (4) Select **COMPRESS (16 : 9)** and set COMPRESS to ON. (5) Select **4. DEF** from the SERVICE MENU. (6) Set the initial setting value of **14. V. ZOOM**. (7) Select **3. V-SIZE**. (8) Set the initial setting value of **3. V-SIZE**. (9) Adjust **3. V-SIZE** to set the vertical amplitude of the image to 235mm. **- NTSC V. HEIGHT -** (1) Receive a NTSC crosshatch signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. HEIGHT in the same way as for "PAL V. HEIGHT".
				
V. SLOPE adjustment	Signal generator Remote control unit		[4.DEF] 2. V-SLOPE	**- PAL V. SLOPE -** (1) Receive a PAL circle pattern signal of vertical frequency 50Hz. (2) Select **4. DEF** from the SERVICE MENU. (3) Select **2. V-SLOPE**. (4) Set the initial setting value of **2. V-SLOPE**. (5) Adjust **2. V-SLOPE** to make "**A = B**". (6) Press the [DISPLAY] key to return to SERVICE MENU screen. **- NTSC V. SLOPE -** (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V-SLOPE in the same way as for "PAL V-SLOPE".
				

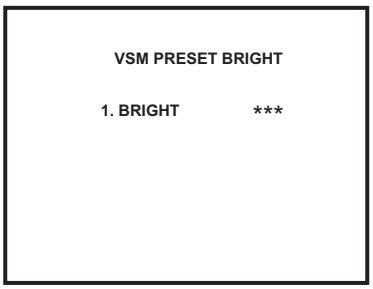
■ **VIDEO - 2 SET: COMPONENT**

Item	Measuring instrument	Test point	Adjustment part	Description
H. POSITION adjustment	Signal generator Remote control unit		[4. DEF] 4. H-CENT	(1) Receive a PAL circle pattern signal to VIDEO-2 component terminal. (2) Select VIDEO-2 SET from the MENU and set VIDEO-2 SET to COMPONENT. (3) Select **4. DEF** from the SERVICE MENU. (4) Select **4. H-CENT**. (5) Set the initial setting value of **4. H-CENT**. (6) Adjust **4. H-CENT** to make "**C=D**". (7) Press the [DISPLAY] key twice to return to the normal screen.
				

4.7.7 VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment part	Description
VSM PRESET setting	Remote control unit		[5. VSM W/B] 1. BRIGHT 2. CONT 3.COLOUR 4. SHARP 5. HUE 1. R-DRIVE 2. G-DRIVE 3. B-DRIVE	(1) Select **5. VSM W/B** from the SERVICE MENU. (2) Select BRIGHT with the MENU [OK] key. (3) Set the value of **1. BRIGHT** ~ **5. HUE** to the values shown in the table. (4) Respectively select the VSM PRESET mode for SOFT and STANDARD. (5) Select COOL with the MENU [OK] key. (6) Set the values of **1. R-DRIVE** ~ **3. B-DRIVE** to the value shown in the table. (7) Select the W/B preset for WARM and NORMAL, respectively. (8) Press the [DISPLAY] key twice to return to the normal screen.

SUB MENU 5. VSM W/B



[Setting Values for SUB 5. VSM W/B]
[AV-17V214/V]

VSM preset / Setting item	BRIGHT	STANDARD	SOFT
1. BRIGHT	0	+5	+5
2. CONT	+15	+5	+1
3. COLOUR	0	0	0
4. SHARP	0	0	-10
5. HUE	0	0	0
W/B preset / Setting item	**COOL**	**NORMAL**	**WARM**
1. R-DRIVE	0	0	+10
2. G-DRIVE	0	0	-4
3. B-DRIVE	0	-10	-12

[AV-17V314/V]

VSM preset / Setting item	BRIGHT	STANDARD	SOFT
1. BRIGHT	0	+4	+4
2. CONT	+15	+4	+1
3. COLOUR	0	0	0
4. SHARP	0	0	-10
5. HUE	0	0	0
W/B preset / Setting item	**COOL**	**NORMAL**	**WARM**
1. R-DRIVE	0	0	+10
2. G-DRIVE	0	+2	-4
3. B-DRIVE	0	-10	-12

4.7.8 PURITY AND CONVERGENCE

■ **PURITY ADJUSTMENT**

Note:

The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is changed by FOCUS adjustment.)
When makes difference by FOCUS adjustment, should be reconfirming PURITY adjustment.

(1) Demagnetize CRT with the demagnetizer.

(2) Loosen the retainer screw of the deflection yoke.

(3) Remove the wedges.

(4) Input a green raster signal from the signal generator, and turn the screen to green raster.

(5) Move the deflection yoke backward.

(6) Bring the long lug of the purity magnets on the short lug and position them horizontally. (Fig.2)

(7) Adjust the gap between two lugs so that the GREEN RASTER will come into the centre of the screen. (Fig.3)

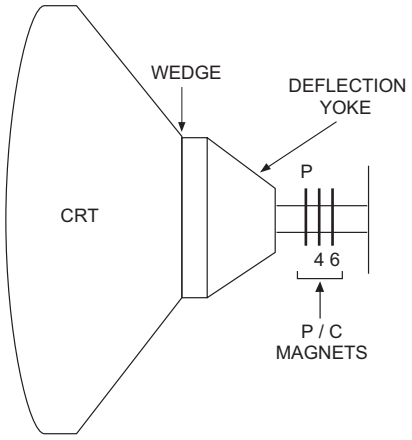
(8) Move the deflection yoke forward, and fix the position of the deflection yoke so that the whole screen will become green.

(9) Insert the wedge to the top side of the deflection yoke so that it will not move.

(10) Input a crosshatch signal.

(11) Verify that the screen is horizontal.

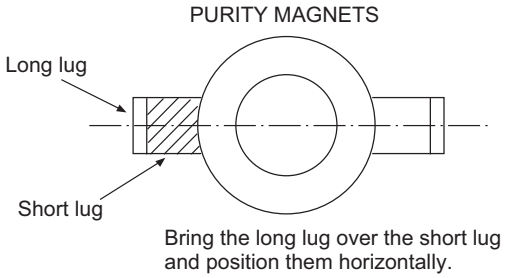
(12) Input red and blue raster signals, and make sure that purity is properly adjusted.



• P/C MAGNETS

P : PURITY MAGNET
4 : 4 POLES (convergence magnets)
6 : 6 POLES (convergence magnets)

Fig.1



Bring the long lug over the short lug and position them horizontally.

Fig.2

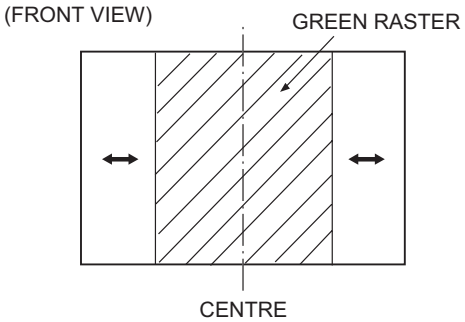


Fig.3

■ STATIC CONVERGENCE ADJUSTMENT

(1) Input a crosshatch signal.

(2) Using 4-pole convergence magnets, overlap the red and blue lines in the centre of the screen (Fig.1) and turn them to magenta (red/blue).

(3) Using 6-pole convergence magnets, overlap the magenta (red/blue) and green lines in the centre of the screen and turn them to white.

(4) Repeat 2 and 3 above, and make best convergence.

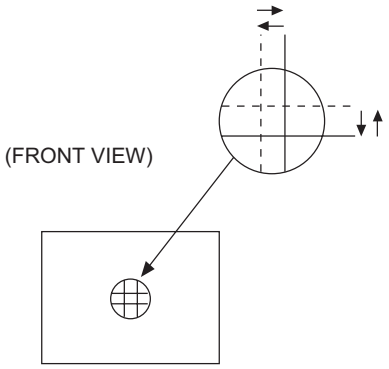


Fig.1

■ DYNAMIC CONVERGENCE ADJUSTMENT

(1) Move the deflection yoke up and down and overlap the lines in the periphery. (Fig. 2)

(2) Move the deflection yoke left to right and overlap the lines in the periphery. (Fig. 3)

(3) Repeat 1 and 2 above, and make best convergence.

(4) Adjust XV by XV coil. (Fig.4)

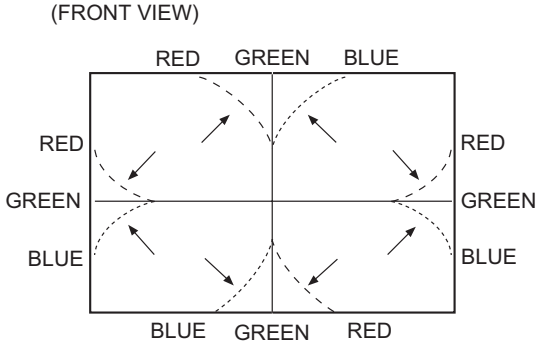


Fig.2

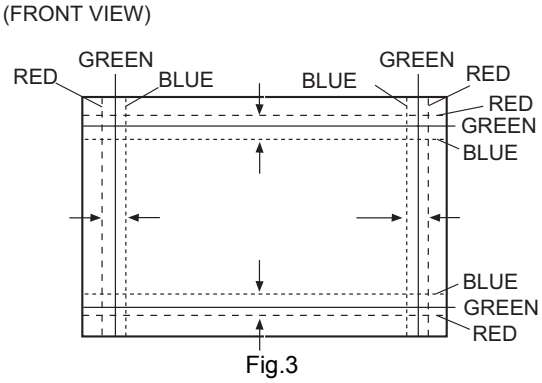


Fig.3

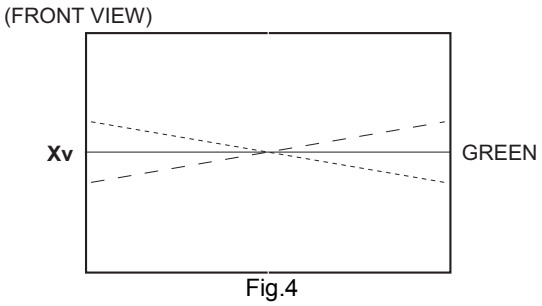


Fig.4

- After adjustment, fix the wedge at the original position. Fasten the retainer screw of the deflection yoke. Fix the P/C magnets with glue.

SECTION 5
TROUBLESHOOTING

5.1 SELF CHECK FUNCTIONS

5.1.1 OUTLINE

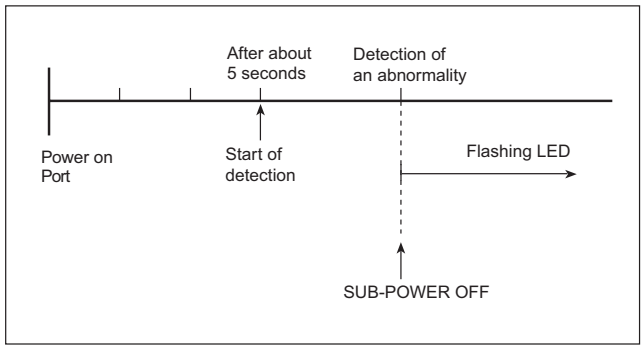
This model has self check functions given below. When an abnormality has been detected, the SUB POWER is turned off and POWER LED flashes to inform of the failure. An abnormality is detected by the signal input state of the control line connected to the microcomputer.

5.1.2 SELF CHECK ITEMS

Check item	Details of detection	Method of detection	State of abnormality
B1 over-current protection	An over-current on the low B1 line is detected.	The main microcomputer detects the possible abnormality at 24-msec. intervals and judges the results in every 16 time. Of the 16 times, if NG is detected more than 9 times, it is judged that there is an abnormality.	When an abnormality has been detected, the SUB-POWER is turned off. While the SUB-POWER is being turned off, the POWER key on the remote control unit is not operational until the power cord is disconnected and connected again.
CRT neck broken protection	Operation of CRT neck protection circuit.		

5.1.3 SELF CHECK INDICATING FUNCTION

When an abnormality has been detected at about 5 seconds after the power was turned on, the SUB POWER is turned off immediately and the POWER LED flashes.



[INDICATION BY THE POWER LED]

Item	LED flashing intervals
B1 over-current protection / CRT neck broken protection	0.3 seconds

JVC

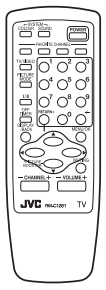
SCHEMATIC DIAGRAMS

FLAT COLOUR TELEVISION

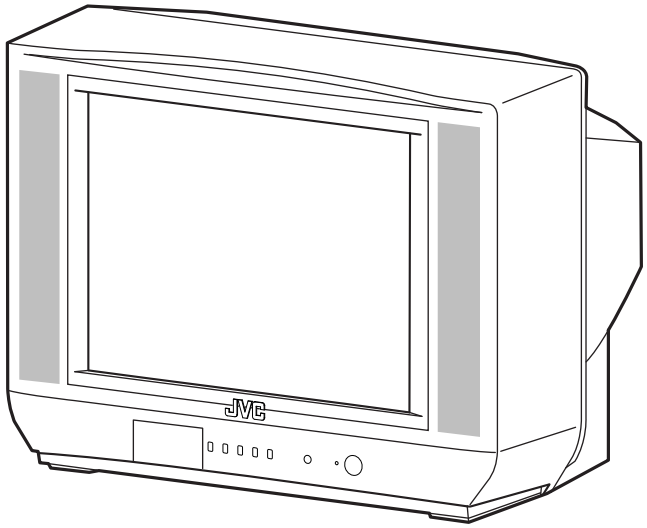
AV-17V214/V,AV-17V314/V

CD-ROM No.SML200501

BASIC CHASSIS
CW



[AV-17V214/V] **[AV-17V314/V]**



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No.YA236
2005/1

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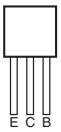
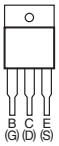
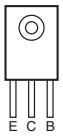
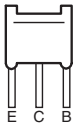
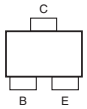
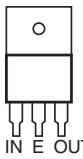
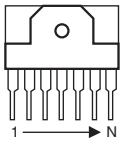
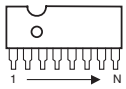
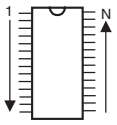
SEMICONDUCTOR SHAPES

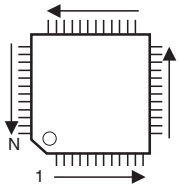
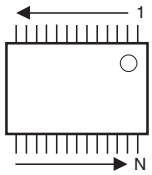
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

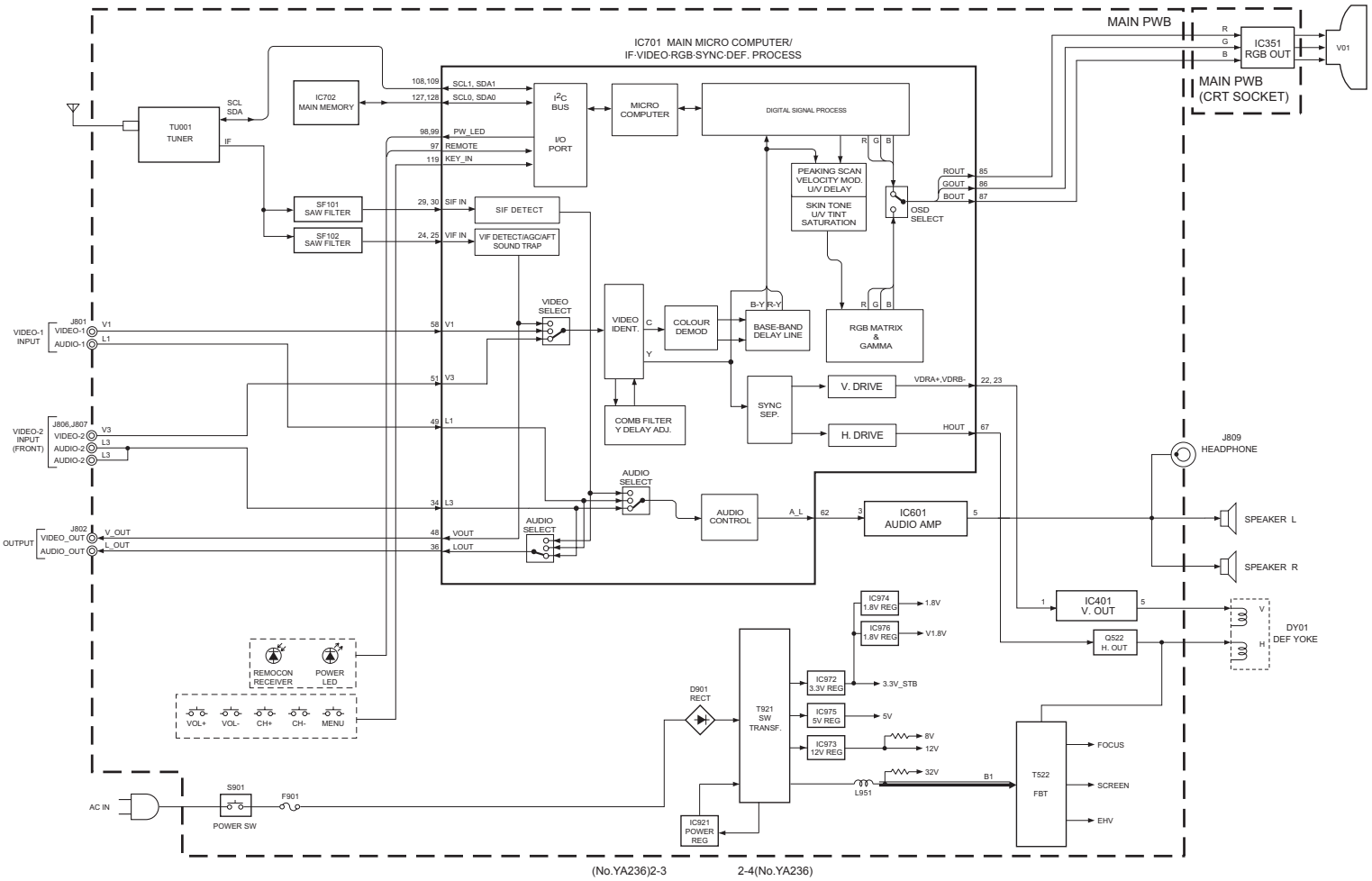
TOP VIEW		
		

USING P.W. BOARD

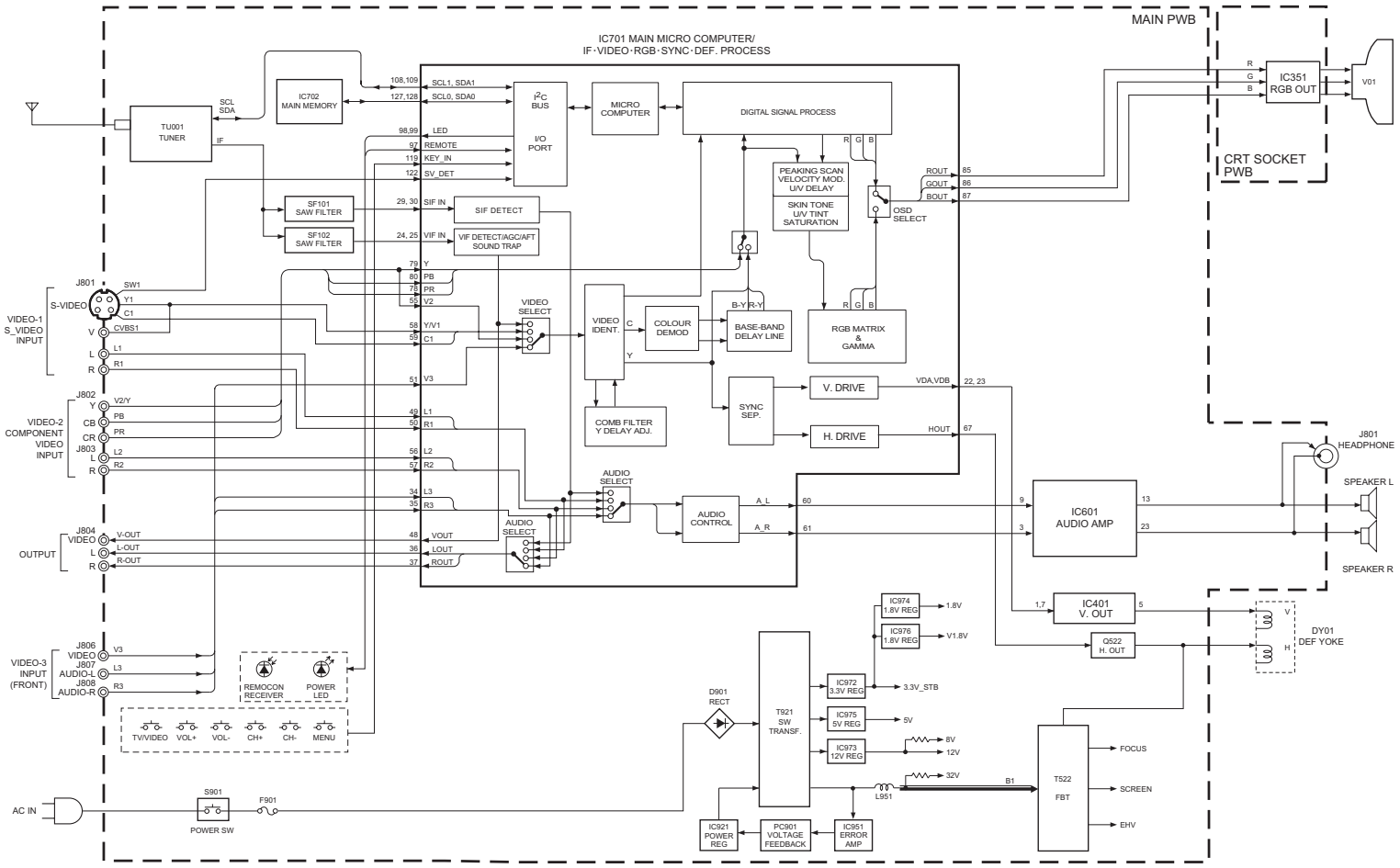
P.W. BOARD ASS'Y NAME	AV-17V214/V	AV-17V314/V
MAIN P.W. BOARD	SCW-1618A-H2	SCW-1620A-H2

BLOCK DIAGRAMS

[AV-17V214/V]

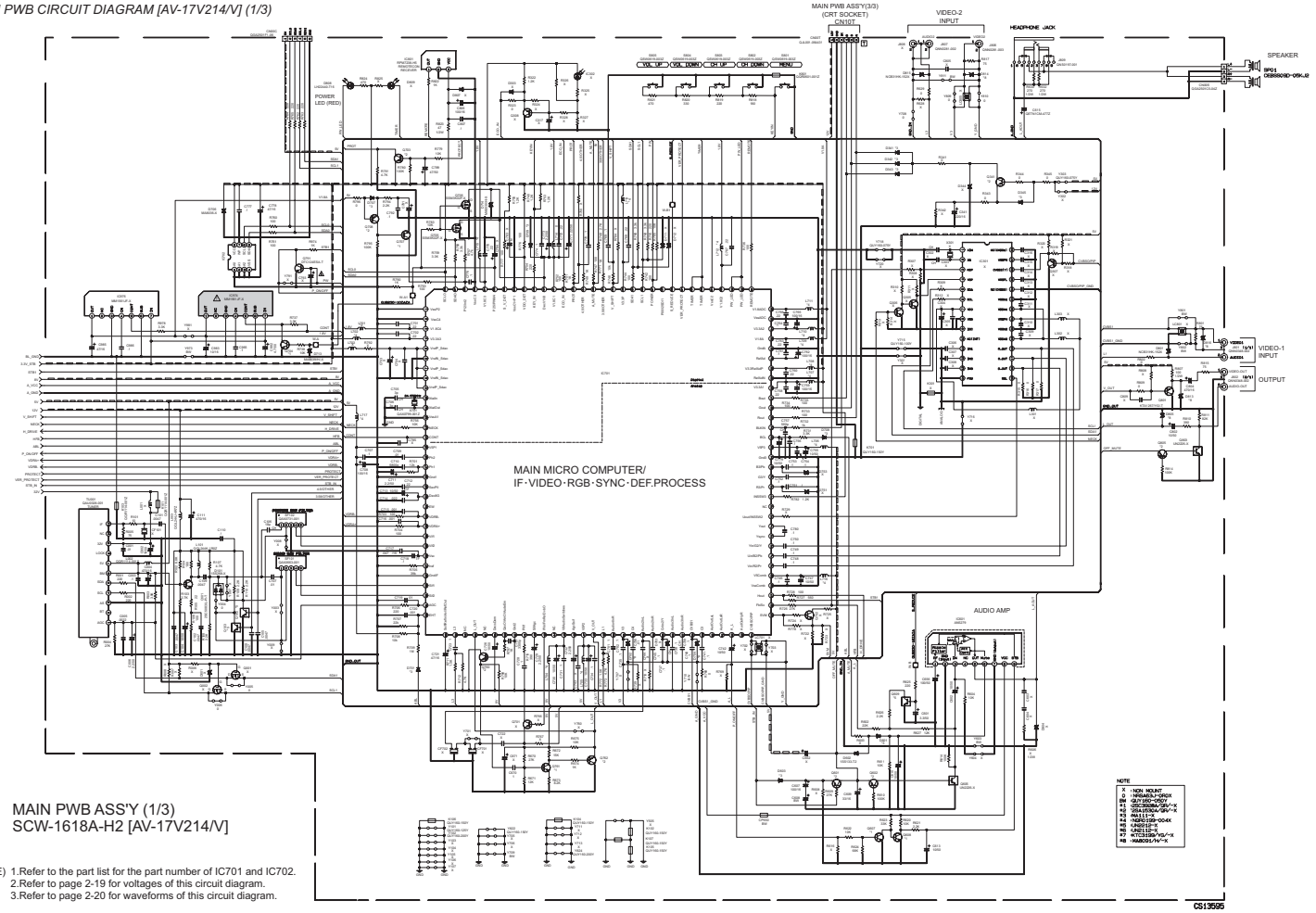


[AV-17V314/V]


MAIN PWB
IC701 MAIN MICRO COMPUTER/
IF·VIDEO·RGB·SYNC·DEF. PROCESS
TU001
TUNER
SCL
SDA
IF
IC702
MAIN MEMORY
108,109
127,128
SCL1, SDA1
SCL0, SDA0
I2C
BUS
I/O
PORT
MICRO
COMPUTER
DIGITAL SIGNAL PROCESS
98,99
97
119
122
LED
REMOTE
KEY_IN
SV_DET
SF101
SAW FILTER
SF102
SAW FILTER
29, 30
24, 25
SIF IN
VIF IN
SIF DETECT
VIF DETECT/AGC/AFT
SOUND TRAP
PEAKING SCAN
VELOCITY MOD.
U/V DELAY
SKIN TONE
U/V TINT
SATURATION
OSD
SELECT
ROUT
GOUT
BOUT
85
86
87
IC351
RGB OUT
V01
CRT SOCKET
PWB
J801
S-VIDEO
SW1
Y1
C1
CVBS1
VIDEO-1
S_VIDEO
INPUT
V
L
R
L1
R1
J802
J803
VIDEO-2
COMPONENT
VIDEO
INPUT
V2/Y
PB
PR
L2
R2
J804
VIDEO
OUTPUT
V-OUT
L-OUT
R-OUT
J806
J807
J808
VIDEO-3
INPUT
(FRONT)
VIDEO
AUDIO-L
AUDIO-R
V3
L3
R3
REMOCON
RECEIVER
POWER
LED
TV/VIDEO
VOL+
VOL-
CH+
CH-
MENU
AC IN
S901
POWER SW
F901
79
80
75
55
58
59
51
49
50
56
57
34
35
48
36
37
Y
PB
PR
V2
Y/V1
C1
V3
L1
R1
L2
R2
L3
R3
VOUT
LOUT
ROUT
VIDEO
SELECT
AUDIO
SELECT
AUDIO
SELECT
VIDEO
IDENT.
C
Y
COLOUR
DEMOD
B-Y R-Y
BASE-BAND
DELAY LINE
RGB MATRIX
&
GAMMA
R G B
COMB FILTER
Y DELAY ADJ.
SYNC
SEP.
V. DRIVE
H. DRIVE
VDA,VDB
HOUT
22, 23
67
AUDIO
CONTROL
A_L
A_R
60
61
9
3
IC601
AUDIO AMP
13
23
J801
HEADPHONE
SPEAKER L
SPEAKER R
IC401
V. OUT
1,7
5
Q522
H. OUT
DY01
DEF YOKE
V
H
IC974
1.8V REG
IC976
1.8V REG
1.8V
V1.8V
D901
RECT
T921
SW
TRANSF.
IC972
3.3V REG
IC975
5V REG
IC973
12V REG
3.3V_STB
5V
8V
12V
32V
L951
B1
T522
FBT
FOCUS
SCREEN
EHV
IC921
POWER
REG
PC901
VOLTAGE
FEEDBACK
IC951
ERROR
AMP

CIRCUIT DIAGRAMS

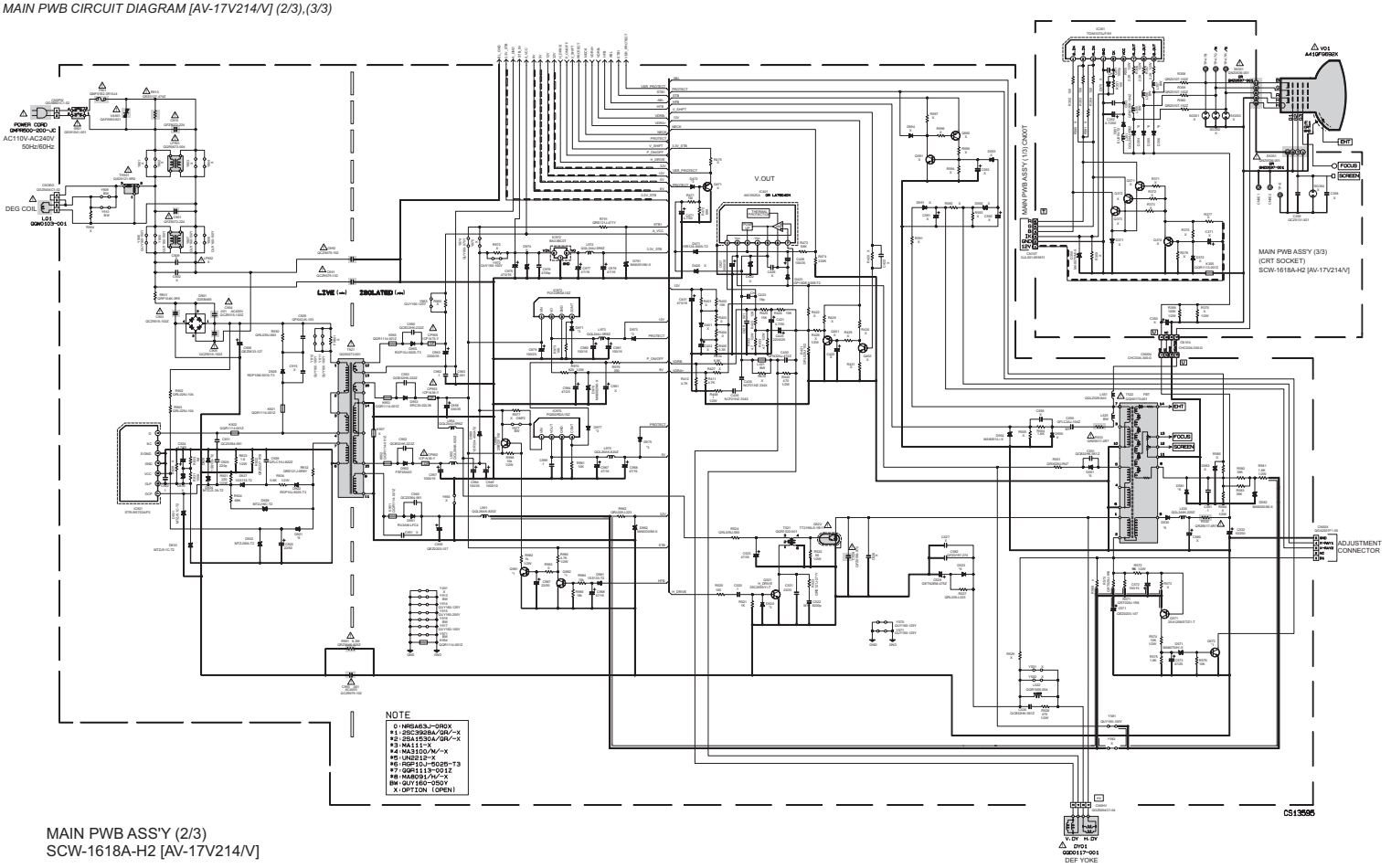
MAIN PWB CIRCUIT DIAGRAM [AV-17V214/V] (1/3)



MAIN PWB ASS'Y (1/3)
SCW-1618A-H2 [AV-17V214/V]

NOTE) 1.Refer to the part list for the part number of IC701 and IC702.
2.Refer to page 2-19 for voltages of this circuit diagram.
3.Refer to page 2-20 for waveforms of this circuit diagram.

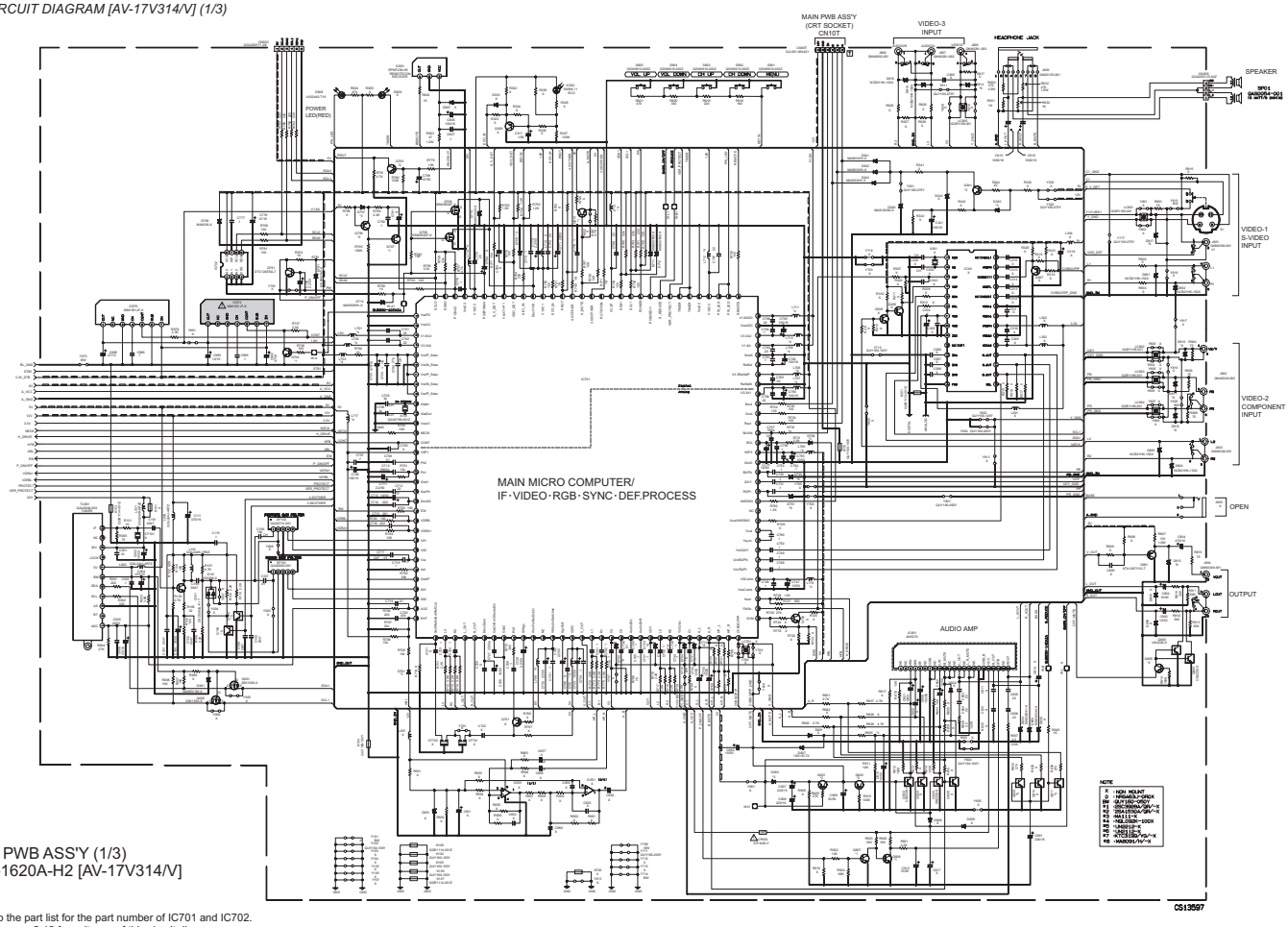
MAIN PWB CIRCUIT DIAGRAM [AV-17V214/V] (2/3),(3/3)



MAIN PWB ASS'Y (2/3)
SCW-1618A-H2 [AV-17V214/V]

NOTE) 1.Refer to page 2-19 for voltages of this circuit diagram.
2.Refer to page 2-20 for waveforms of this circuit diagram.

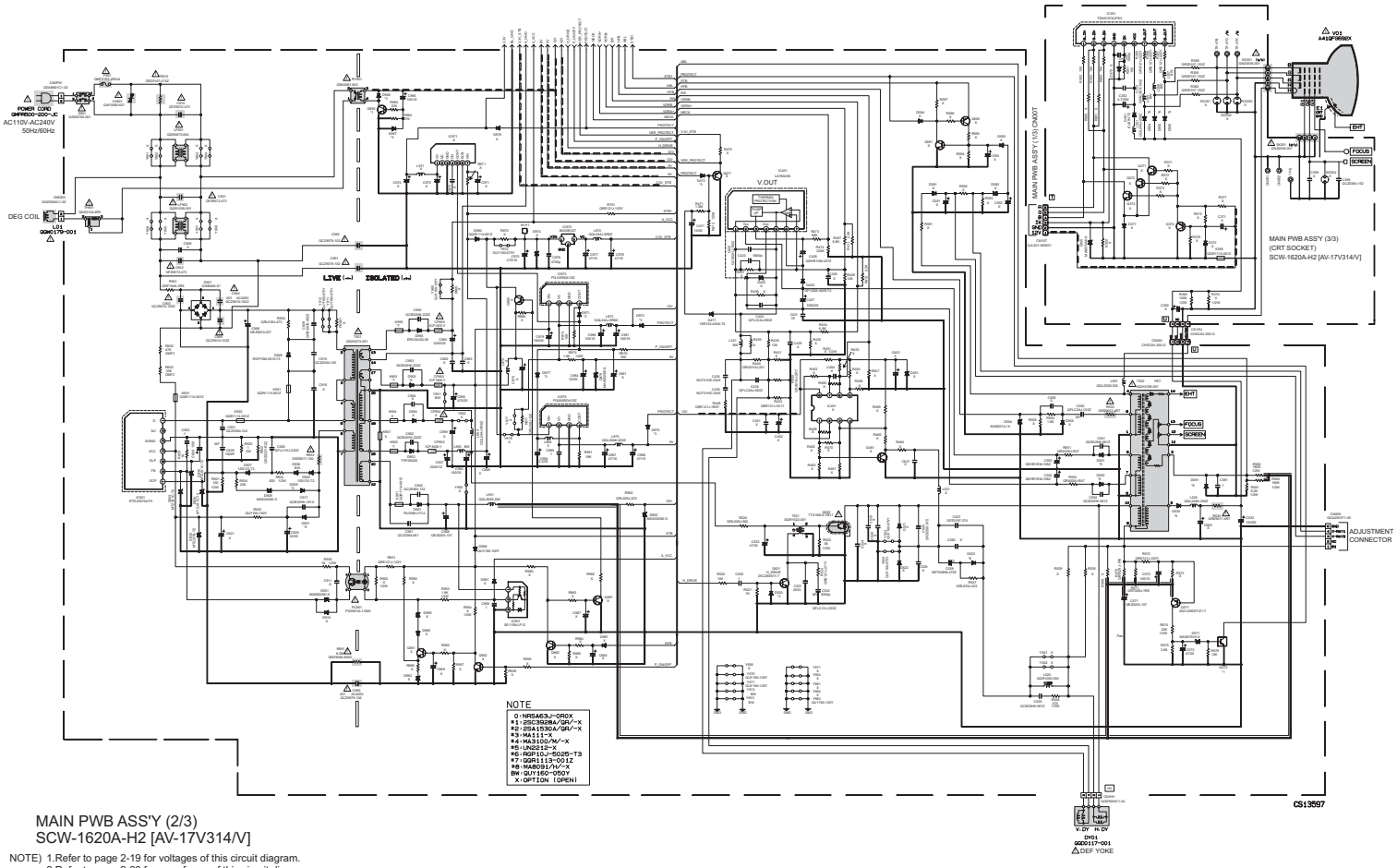
MAIN PWB CIRCUIT DIAGRAM [AV-17V314/V] (1/3)



MAIN PWB ASS'Y (1/3)
SCW-1620A-H2 [AV-17V314/V]

NOTE) 1.Refer to the part list for the part number of IC701 and IC702.
2.Refer to page 2-19 for voltages of this circuit diagram.
3.Refer to page 2-20 for waveforms of this circuit diagram.

MAIN PWB CIRCUIT DIAGRAM [AV-17V314/V] (2/3),(3/3)

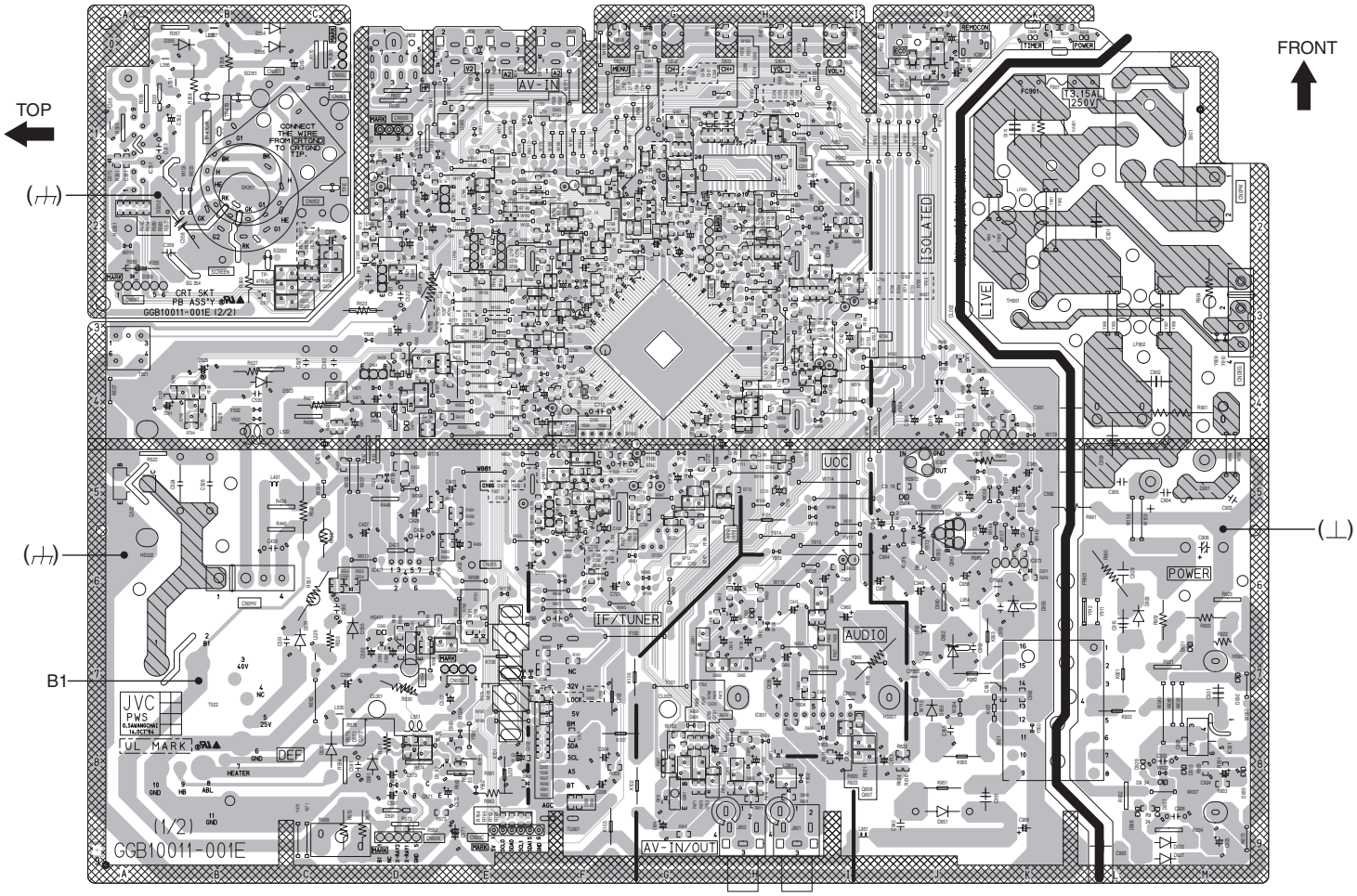


MAIN PWB ASS'Y (2/3)
SCW-1620A-H2 [AV-17V314/V]

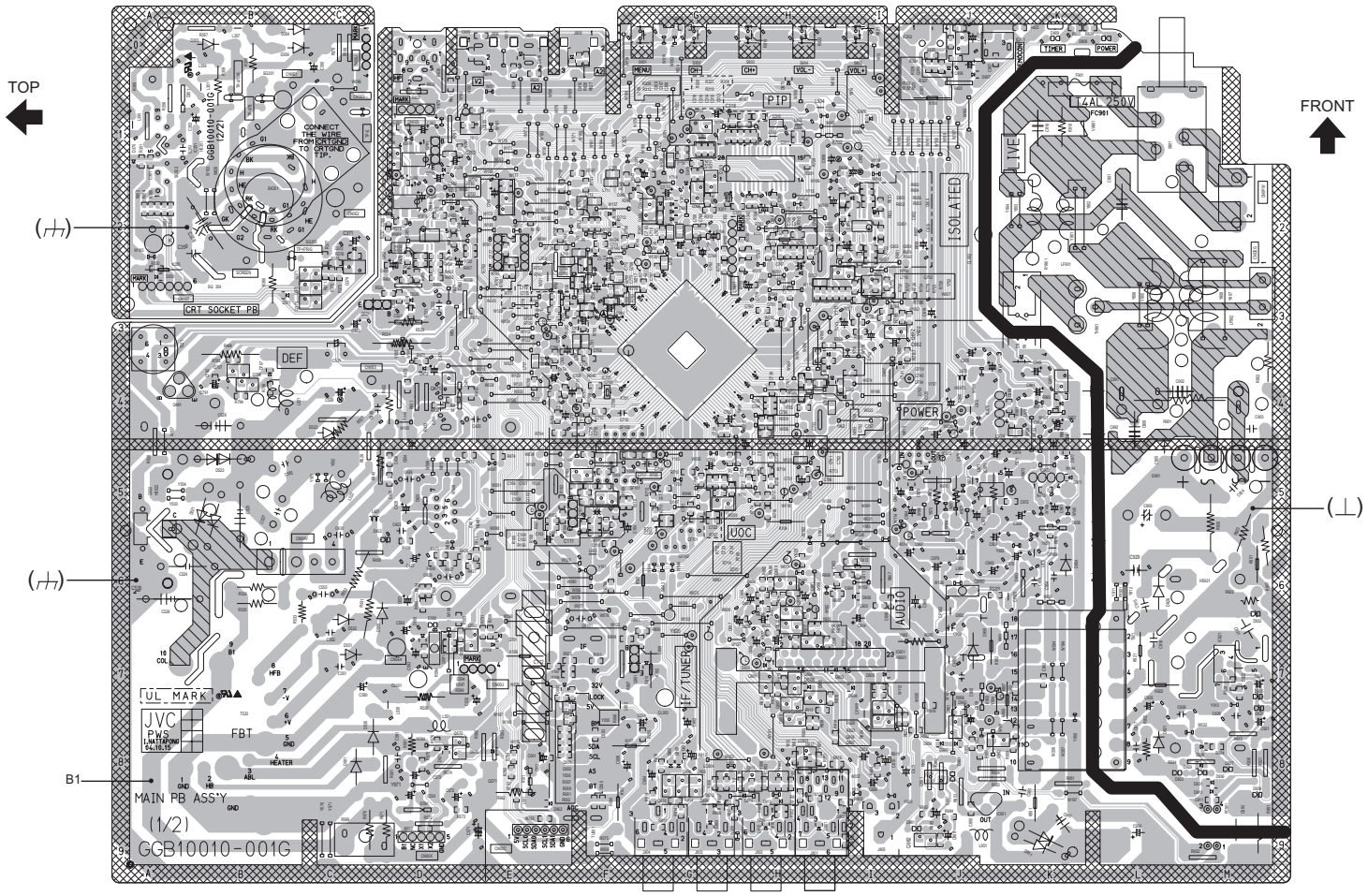
NOTE) 1.Refer to page 2-19 for voltages of this circuit diagram.
2.Refer to page 2-20 for waveforms of this circuit diagram.

PATTERN DIAGRAMS

MAIN PWB PATTERN [AV-17V214/V]



MAIN PWB PATTERN [AV-17V314/V]



VOLTAGE CHARTS

<MAIN PWB>

PIN NO.	VOLTAGE(V)
IC302	
1	3.2
2	2.5
IC401	
1	0.5
2	13.3
3	-11.9
4	-13.5
5	0.2
6	13.5
7	0.6
IC601	
1	0
2	0
3	23.5
4	0
5	0
6	0
7	11.7
8	2.1
9	0
10	24.8
11	15.8
12	11.7
IC701	
1	0
2	0
3	1.8
4	3.2
5	3.1
6	0.7
7	0
8	0.7
9	0
10	1.5
11	1.5
12	0
13	0.1
14	2.9
15	4.8
16	0.1
17	2.3
18	0
19	0.2
20	2.3
21	0.1
22	0.2
23	0.9
24	2.0
25	0.1
26	2.4
27	1.9
28	0
29	1.9
30	1.9
31	1.7
32	3.3
33	0.3
34	2.2
35	2.2
36	2.7
37	2.7
38	2.2
39	2.4
40	0
41	1.9
42	1.8
43	0.2
44	0.5
45	8.3
46	1.9
47	4.9
48	1.2
49	2.2
50	2.1
51	1.4
52	1.5
53	2.2
54	2.2
55	1.4
56	2.2
57	2.2
58	1.4
59	1.6
60	2.8
61	2.7
62	3.5
63	3.5
64	0.1
65	2.0
66	0.3
67	1.5
68	0
69	0.1
70	1.3

PIN NO.	VOLTAGE(V)
71	0.1
72	1.3
73	1.9
74	1.7
75	0.1
76	0
77	3.2
78	1.3
79	1.2
80	1.2
81	0
82	4.8
83	2.5
84	3.6
85	1.9
86	1.9
87	1.9
88	3.2
89	0
90	3.2
91	1.6
92	0
93	1.8
94	3.2
95	0
96	1.8
97	3.2
98	0.1
99	0.1
100	1.8
101	0
102	3.2
103	3.2
104	0
105	0
106	0
107	0
108	2.2
109	2.8
110	3.2
111	0
112	3.2
113	2.9
114	3.2
115	0
116	2.5
117	1.8
118	1.8
119	3.2
120	0
121	0
122	3.2
123	0
124	1.7
125	0
126	3.2
127	3.2
128	3.1
IC702	
1	0
2	0
3	0
4	0
5	3.1
6	3.1
7	0
8	3.2
IC801	
1	3.2
2	3.2
3	0
IC921	
1	302.6
3	0
4	19.8
5	0.1
6	1.3
7	0.7
IC951	
1	135.4
2	11.7
3	0
IC972	
1	7.2
2	0
3	3.3
IC973	
1	15.6
2	11.9
3	0
4	4.6

PIN NO.	VOLTAGE(V)
IC974	
1	1.8
2	0
3	0
4	0.5
5	2.8
6	0
7	3.2
IC975	
1	7.2
2	4.9
3	0
4	4.7
IC976	
1	1.8
2	0
3	0
4	0.5
5	2.9
6	0
7	3.2
Q101	
E	2.3
C	11.3
B	3.0
Q102	
E	0
C	0
B	3.1
Q103	
E	0
C	0
B	3.1
Q521	
E	0
C	11.0
B	0
Q522	
E	0
C	131
B	-0.1
Q571	
E	135.3
C	0
B	135.0
Q572	
E	0
C	3.2
B	0
Q601	
E	8.2
C	0.2
B	8.3
Q602	
E	0.2
C	-0.1
B	0
Q603	
E	0
C	0
B	-0.1
Q605	
E	0
C	0
B	-0.1
Q607	
E	0
C	0
B	0.7
Q608	
E	0
C	17.5
B	0
Q703	
E	3.2
C	0
B	3.2
Q705	
S	0
G	0.3
D	1.8
Q801	
E	1.9
C	0
B	1.2
Q803	
E	0
C	0
B	-0.4
Q804	
E	0
C	0
B	-0.3

PIN NO.	VOLTAGE(V)
Q805	
E	0.2
C	-0.4
B	0
Q955	
E	0
C	11.9
B	0
TU001	
1 (AGC)	1.8
2	3.5
3	0
4	2.3
5	2.3
6	4.9
7	4.8
8	0
9	34.3
11	0

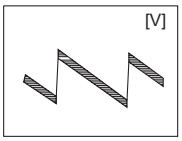
<MAIN PWB (CRT SOCKET)>

PIN NO.	VOLTAGE(V)
IC351	
1	2.0
2	1.9
3	2.0
4	0
5	4.9
6	211.3
7	132.7
8	134.0
9	132.8

WAVEFORMS

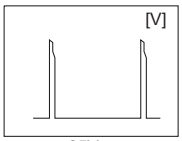
-MAIN PWB-

IC401-1



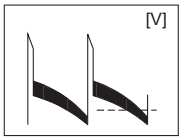
0.6Vp-p

IC401-3



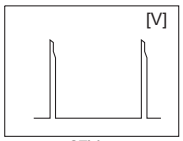
25Vp-p

IC401-5



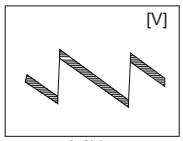
55Vp-p

IC401-6



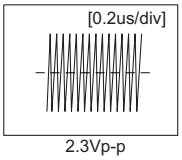
27Vp-p

IC401-7



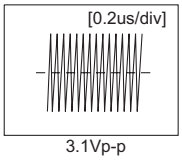
0.6Vp-p

IC701-10



2.3Vp-p

IC701-11

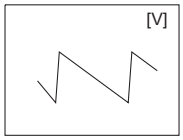


3.1Vp-p

IC701-22

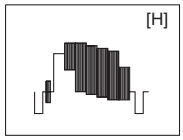
0.8Vp-p

IC701-23



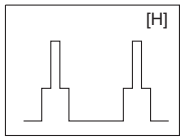
1.1Vp-p

IC701-48



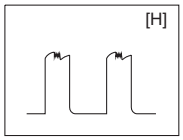
2.1Vp-p

IC701-66



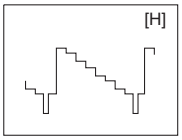
5.4Vp-p

IC701-67



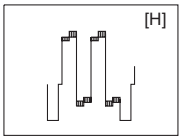
3.0Vp-p

IC701-74



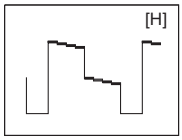
1.2Vp-p

IC701-85



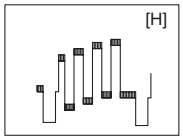
2.0Vp-p

IC701-86



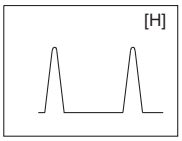
1.6Vp-p

IC701-87



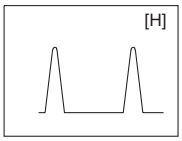
2.4Vp-p

T522-2



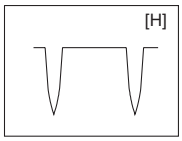
250Vp-p

T522-4



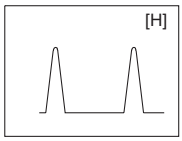
25Vp-p

T522-6



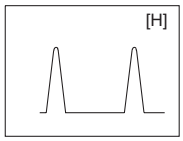
120Vp-p

T522-7



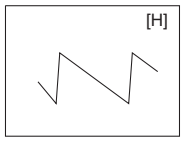
120Vp-p

T522-8



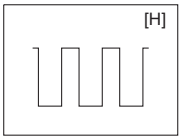
62Vp-p

T522-9



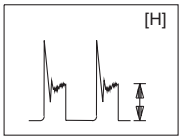
5.6Vp-p

Q521-B



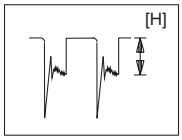
2.7Vp-p

Q521-C



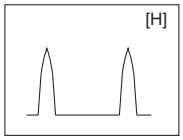
18Vp-p

Q522-B



2.3Vp-p

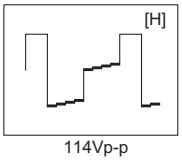
Q522-C



1050Vp-p

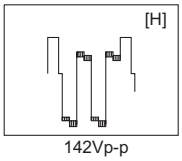
-CRT SOCKET PWB-

IC351-7



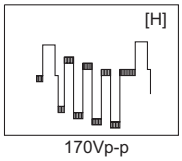
114Vp-p

IC351-8



142Vp-p

IC351-9



170Vp-p

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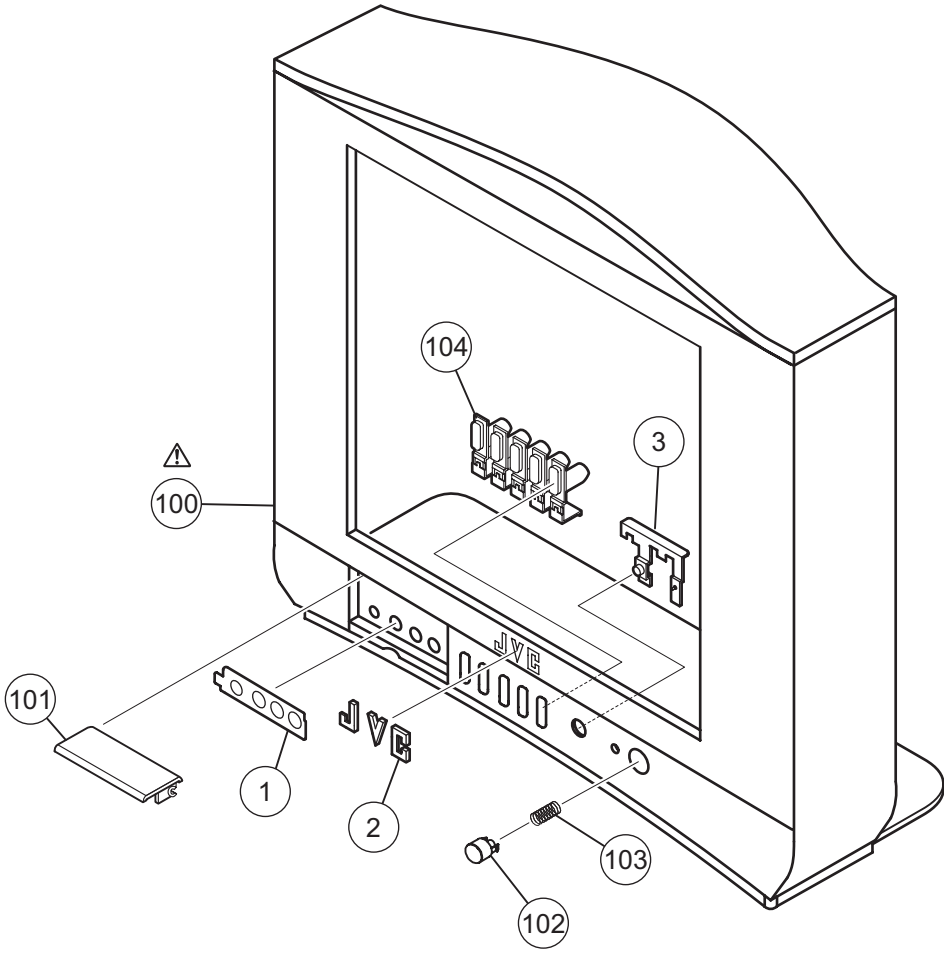
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	AV-17V314/V	AV-17V214/V
MAIN P.W.B	SCW-1620A-CK	SCW-1618A-CK
REMOTE CONTROL UNIT	RM-C1281-2H	RM-C1261-2H

EXPLODED VIEW PARTS LIST -1

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	GG30128-002B-H	AV SHEET		AV-17V314/V
	1	GG30128-001B-H	AV SHEET		AV-17V214/V
	2	GG30129-001A-H	JVC MARK		
	3	GG30127-001A-E	LED LENS		
⚠	100	GG10300-001A-E	FRONT CABINET ASSY	Inc.101,102,103,104	AV-17V314/V
⚠	100	GG10300-002A-E	FRONT CABINET ASSY	Inc.101,102,103,104	AV-17V214/V
	101	GG20085-001A-E	DOOR		AV-17V314/V
	101	GG20085-002A-E	DOOR		AV-17V214/V
	102	GG20086-001A-E	CONTROL KNOB		AV-17V314/V
	102	GG20086-002A-E	CONTROL KNOB		AV-17V214/V
	103	GG30126-001A-E	POWER KNOB		AV-17V314/V
	103	GG30126-002A-E	POWER KNOB		AV-17V214/V
	104	CM35235-003-H	SPRING		

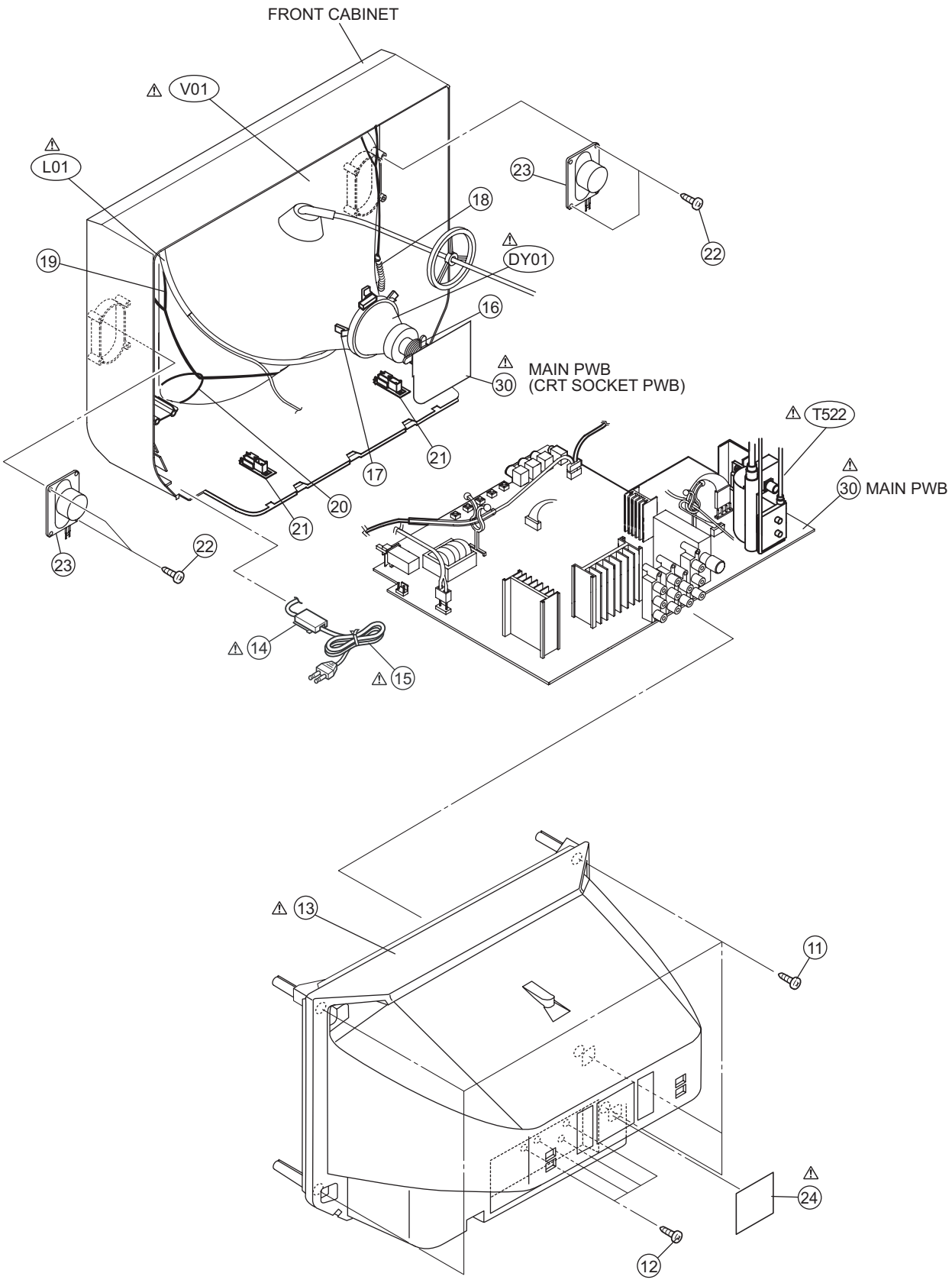
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2 [AV-17V314/V]

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A41QFG692X	PICTURE TUBE		
⚠	DY01	QQD0117-001	DEF YOKE		
⚠	L01	QQW0179-001	DEG COIL		
⚠	T522	QQH0189-001	FB TRANSF		
	11	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x5)	
	12	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
⚠	13	LC10618-002A-E	REAR COVER		
⚠	14	CM47005-A01-H	POWER CORD CLAMP		
⚠	15	QMPR500-200-JC	POWER CORD	2m BLACK	
	16	QAL0608-001	PC MAGNET		
	17	CE40764-00A	WEDGE ASSY	(x3)	
	18	A48457-3-H	SPRING		
	19	WJY0014-001A	BRAIDED ASSY		
	20	CHGB0017-0C	BRAIDED SUB ASSY		
	21	CM36623-B01-H	CHASSIS RAIL	(x2)	
	22	QYSBSF4012ZA	TAP SCREW	M4 x 12mm(x4)	
	23	QAS0054-001	SPEAKER	(x2) SP01,SP02	
⚠	24	GG20016-056A-E	RATING LABEL		
⚠	30	SCW-1620A-CK	MAIN BOARD ASSY		

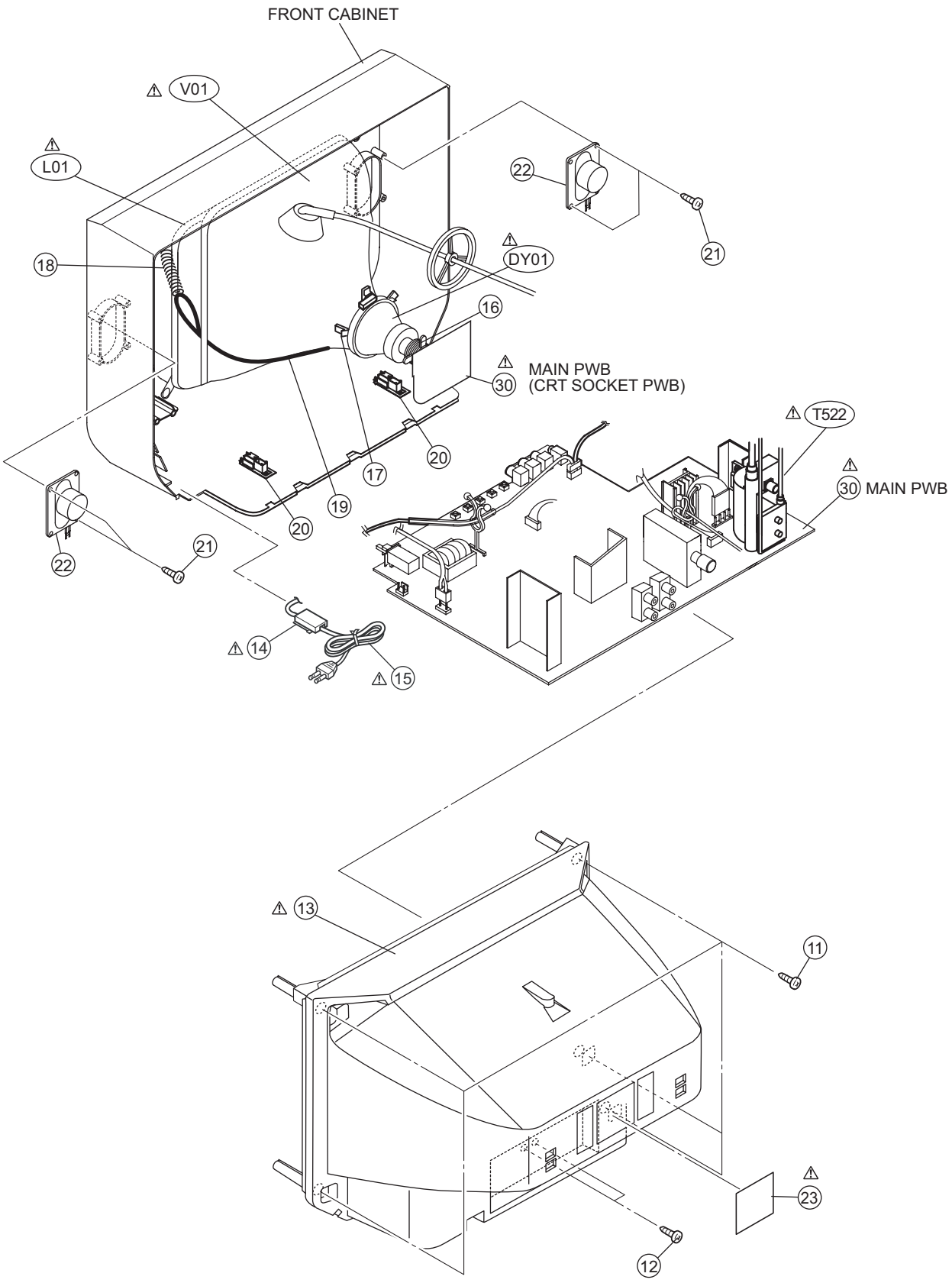
EXPLODED VIEW -2



EXPLODED VIEW PARTS LIST -3 [AV-17V214/V]

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A41QFG692X	PICTURE TUBE		
⚠	DY01	QQD0117-001	DEF YOKE		
⚠	L01	QQW0103-001	DEG COIL		
⚠	T522	QQH0170-001	FB TRANSF		
	11	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x5)	
	12	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x2)	
⚠	13	LC10618-003A-E	REAR COVER		
⚠	14	CM47005-A01-H	POWER CORD CLAMP		
⚠	15	QMPR500-200-JC	POWER CORD	2m BLACK	
	16	QAL0608-001	PC MAGNET		
	17	CE40764-00A	WEDGE ASSY	(x3)	
	18	A48457-3-H	SPRING		
	19	WJY0008-001A	BRAIDED ASSY		
	20	CM36623-B01-H	CHASSIS RAIL	(x2)	
	21	QYSBSF4012ZA	TAP SCREW	M4 x 12mm(x4)	
	22	CEBSS09D-05KJ2	SPEAKER	(x2) SP01,SP02	
⚠	23	GG20016-055A-E	RATING LABEL		
⚠	30	SCW-1618A-CK	MAIN BOARD ASSY		

EXPLODED VIEW -3



PRINTED WIRING BOARD PARTS LIST [AV-17V314/V]

MAIN P.W. BOARD ASS'Y (SCW-1620A-CK)

⚠Ref No.	Part No.	Part Name	Description Local
IC351	TDA6107AJF/N1	IC	
IC401	AN15525A	IC	
IC601	AN5276	IC	
IC701	TDA12027-ETV	IC(MCU)	(SERVICE)
IC702	AT24C16-21CX14	IC	(SERVICE)
IC801	RPM7238-H5	IR DETECT UNIT	
IC921	STR-W6754-F5	SW IC	
IC951	SE115N-LF12	IC	
IC972	BA33BC0T	REGULATOR IC	
IC973	PQ120RDA1SZ	IC	
IC974	MM1561JF-X	IC	
IC975	PQ050RDA1SZ	IC	
IC976	MM1561JF-X	IC	
Q001	2SK1830-X	MOS FET	
Q002	2SK1830-X	MOS FET	
Q101	2SC5083/L-P/-T	TRANSISTOR	
Q102	UN2212-X	DIGI TRANSISTOR	
Q103	UN2212-X	DIGI TRANSISTOR	
Q341	2SA1530A/QR/-X	TRANSISTOR	
Q521	2SC2655/Y/-T	TRANSISTOR	
⚠Q522	TT2190LS-YB11	TRANSISTOR	
Q571	2SA1208/ST/Z1-T	TRANSISTOR	
Q572	2SC3928A/QR/-X	TRANSISTOR	
Q601	2SA1530A/QR/-X	TRANSISTOR	
Q602	2SA1530A/QR/-X	TRANSISTOR	
Q603	DTC323TK-X	DIGI TRANSISTOR	
Q605	DTC323TK-X	DIGI TRANSISTOR	
Q607	2SC3928A/QR/-X	TRANSISTOR	
Q608	2SC3928A/QR/-X	TRANSISTOR	
Q609	UN2212-X	DIGI TRANSISTOR	
Q611	UN2212-X	DIGI TRANSISTOR	
Q612	2SC3928A/QR/-X	TRANSISTOR	
Q703	2SA1530A/QR/-X	TRANSISTOR	
Q704	2SC3928A/QR/-X	TRANSISTOR	
Q705	SSM3K02F-X	MOS FET	
Q706	SSM3K02F-X	MOS FET	
Q707	2SC3928A/QR/-X	TRANSISTOR	
Q708	2SA1530A/QR/-X	TRANSISTOR	
Q791	DTC124ESA-T	DIGI TRANSISTOR	
Q801	KTA1267/YG/-T	TRANSISTOR	
Q803	DTC323TK-X	DIGI TRANSISTOR	
Q804	DTC323TK-X	DIGI TRANSISTOR	
Q805	2SA1530A/QR/-X	TRANSISTOR	
Q955	2SC3928A/QR/-X	TRANSISTOR	
D001	MA8051/M/-X	Z DIODE	
D101	1SS268-X	SI DIODE	
D341	MA8033/H/-X	Z DIODE	
D342	MA8033/H/-X	Z DIODE	
D343	MA8033/H/-X	Z DIODE	
D345	MA111-X	SI DIODE	
D349	MA8120/M/-X	Z DIODE	
D350	MA8075/M/-X	Z DIODE	
D351	EU01N-T2	SI DIODE	
D354	RGP10J-5025-T3	SI DIODE	
D355	RGP10J-5025-T3	SI DIODE	
D356	RGP10J-5025-T3	SI DIODE	
D422	MTZJ75-T2	Z DIODE	
D423	GP10DE-5009-T2	SI DIODE	
D471	1SR124-400A-T2	SI DIODE	
D472	MA111-X	SI DIODE	
D520	MA111-X	SI DIODE	
D523	RGP10J-5025-T3	SI DIODE	
D530	RGP10J-5025-T3	SI DIODE	
D551	RGP10J-5025-T3	SI DIODE	
D552	RGP10J-5025-T3	SI DIODE	
D554	MA8051/L/-X	Z DIODE	
D571	MA8075/H/-X	Z DIODE	
D581	RGP10J-5025-T3	SI DIODE	
D601	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
D603	MA111-X	SI DIODE	
D604	MA8300/H/-X	Z DIODE	
D605	MA8300/H/-X	Z DIODE	
D607	1SS133-T2	SI DIODE	
D701	MA111-X	SI DIODE	
D702	MA8091/H/-X	Z DIODE	
D703	MA8091/H/-X	Z DIODE	
D704	MA8091/H/-X	Z DIODE	
D706	MA8036-X	Z DIODE	
D707	MA111-X	SI DIODE	
D708	MA111-X	SI DIODE	

⚠Ref No.	Part No.	Part Name	Description Local
D709	MA111-X	SI DIODE	
D710	MA8091/H/-X	Z DIODE	
D711	MA111-X	SI DIODE	
D712	MA111-X	SI DIODE	
D713	MA8039/H/-X	Z DIODE	
D714	MA8030/H/-X	Z DIODE	
D751	MA8091/H/-X	Z DIODE	
D753	MA8091/H/-X	Z DIODE	
D791	MA8062/M/-X	Z DIODE	
D801	NCB21HK-152X	C CAPACITOR	1500pF 50V K
D802	NCB21HK-152X	C CAPACITOR	1500pF 50V K
D803	NCB21HK-152X	C CAPACITOR	1500pF 50V K
D804	NCB21HK-152X	C CAPACITOR	1500pF 50V K
D808	LH22440-T16	LED	POWER(RED)
D810	MA8091/H/-X	Z DIODE	
D811	MA8091/H/-X	Z DIODE	
D812	MA8091/H/-X	Z DIODE	
D813	MA8091/H/-X	Z DIODE	
D814	MA8091/H/-X	Z DIODE	
D815	NCB21HK-152X	C CAPACITOR	1500pF 50V K
D816	NCB21HK-152X	C CAPACITOR	1500pF 50V K
D817	MA8091/H/-X	Z DIODE	
D901	GSIB460	BRIDGE DIODE	
D921	RGP10J-5025-T3	SI DIODE	
D922	1SS133-T2	SI DIODE	
D926	RGP10M-5010-T3	SI DIODE	
D927	1SS133-T2	SI DIODE	
D928	MA8240/M/-X	Z DIODE	
D929	MA111-X	SI DIODE	
D931	MA8062/M/-X	Z DIODE	
D932	MTZJ27B-T2	Z DIODE	
D933	MTZJ9.1C-T2	Z DIODE	
D934	MTZJ9.1C-T2	Z DIODE	
D935	MTZJ9.1C-T2	Z DIODE	
D951	RU3AM-LFC4	SI DIODE	
D952	FSF05A20	SI DIODE	
D953	RGP10J-5025-T3	SI DIODE	
D955	ERC30-02L38	SI DIODE	
D956	MA111-X	SI DIODE	
D957	MA111-X	SI DIODE	
D962	MA8330/M/-X	Z DIODE	
D970	MA8082/M/-X	Z DIODE	
D971	MA111-X	SI DIODE	
D973	MA111-X	SI DIODE	
D975	MA111-X	SI DIODE	
D977	MA111-X	SI DIODE	
D980	QQR1114-001Z	FERRITE BEADS	
C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C004	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C006	QETN1CM-336Z	E CAPACITOR	33uF 16V M
C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C102	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C104	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C106	NDC31HJ-180X	C CAPACITOR	18pF 50V J
C107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C108	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C109	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C110	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C111	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C341	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C351	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C352	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C353	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C358	QCZ0364-152	C CAPACITOR	1500pF 2kV K
C422	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
C423	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J
C427	QETM1VM-108	E CAPACITOR	1000uF 35V M
C428	QEHR1VM-227Z	E CAPACITOR	220uF 35V M
C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J
C431	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
C471	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C520	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K
C522	QFLC1HJ-822Z	M CAPACITOR	8200pF 50V J

⚠Ref No.	Part No.	Part Name	Description	Local
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C525	QFZ0200-972	MPP CAPACITOR	9700pF 1.5kV H	
C527	QFZ0197-274	MPP CAPACITOR	0.27uF 250V J	
C529	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M	
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C554	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	
C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J	
C571	QEZ0203-107	E CAPACITOR	100uF 160V M	
C572	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C573	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C601	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C603	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C604	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C605	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C606	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C607	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C608	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C609	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C615	QETM1EM-108	E CAPACITOR	1000uF 25V M	
C616	QETM1EM-108	E CAPACITOR	1000uF 25V M	
C656	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C661	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C705	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C706	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C707	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C717	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C718	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C723	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C724	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C730	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C731	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C734	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C735	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C737	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C738	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C739	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C740	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C741	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C744	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C745	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C746	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C748	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C749	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C750	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C751	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C752	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C753	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C754	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C761	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C764	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C770	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C771	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C773	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C774	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C776	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C777	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C778	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C780	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C781	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C782	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C789	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C792	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C793	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C803	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C806	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C807	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C901	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	
C902	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	
⚠C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
⚠C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
⚠C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	
C906	QEZ0633-227	E CAPACITOR	220uF	
C910	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	
C915	QCZ0364-102	C CAPACITOR	1000pF 2kV K	
C917	QCB32HK-181Z	C CAPACITOR	180pF 500V K	
C922	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C924	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C925	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C926	QFLC1HJ-222Z	M CAPACITOR	2200pF 50V J	
C928	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	
C929	QCB32HK-392Z	C CAPACITOR	3900pF 500V K	
C931	QCZ0364-102	C CAPACITOR	1000pF 2kV K	
C940	QCZ0364-122	C CAPACITOR	1200pF 2kV K	
C950	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C951	QCZ0364-561	C CAPACITOR	560pF 2kV K	
C952	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C953	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C955	QCB32HK-222Z	C CAPACITOR	2200pF 500V K	
C956	QEZ0203-107	E CAPACITOR	100uF 160V M	
C957	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	
C958	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M	
C963	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C964	QETN1VM-107Z	E CAPACITOR	100uF 35V M	
C965	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C966	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C967	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C968	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C975	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C976	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C977	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C978	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C979	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C981	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C982	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C983	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C984	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
C985	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C986	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C989	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
⚠C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
C994	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	

⚠Ref No.	Part No.	Part Name	Description Local
R103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R322	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R323	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R341	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R344	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R345	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R351	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R352	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R354	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R355	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R356	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R357	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R358	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R359	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R369	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J
R370	QRE121J-394Y	C RESISTOR	390kΩ 1/2W J
R411	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R412	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R426	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R427	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R430	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R432	QRX01GJ-2R7	MF RESISTOR	2.7Ω 1W J
R433	QRE121J-331Y	C RESISTOR	330Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R440	QRG01GJ-221	OMF RESISTOR	220Ω 1W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R471	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J
R472	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R522	QRE121J-560Y	C RESISTOR	56Ω 1/2W J
R523	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R524	QRL039J-560	OMF RESISTOR	56Ω 3W J
R527	QRL039J-223	OMF RESISTOR	22kΩ 3W J
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
⚠R530	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
R552	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R570	QRT029J-1R8	MF RESISTOR	1.8Ω 2W J
R571	QRT029J-1R8	MF RESISTOR	1.8Ω 2W J
R572	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R574	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R575	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R576	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R582	QRE121J-154Y	C RESISTOR	150kΩ 1/2W J
R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R601	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R602	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R603	MA111-X	SI DIODE	
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R606	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R607	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R609	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R626	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R629	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R630	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R632	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R633	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R634	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R636	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R637	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R639	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R640	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R711	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R712	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R713	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R714	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R716	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R717	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R718	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R719	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R727	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R731	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R737	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R740	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R747	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R748	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R768	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R772	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R773	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R774	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R775	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R776	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R779	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R780	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R781	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R783	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R786	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R787	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R788	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R791	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R796	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R809	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R812	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R813	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R816	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R818	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R819	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R820	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R821	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R822	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R823	QRE121J-470Y	C RESISTOR	47Ω 1/2W J
R824	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R901	QRF104K-3R9	UNF WW RESISTOR	3.9Ω 10W K
R902	QRL029J-473	OMF RESISTOR	47kΩ 2W J
R903	QRL029J-333	OMF RESISTOR	33kΩ 2W J
R910	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R921	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R922	QRZ0237-R22	UNF WW RESISTOR	0.22Ω 3W J
R923	QRT029J-1R0	MF RESISTOR	1Ω 2W J
R924	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R929	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R930	QRL039J-473	OMF RESISTOR	47kΩ 3W J
⚠R932	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J
R934	QRE121J-821Y	C RESISTOR	820Ω 1/2W J
R935	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R951	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R953	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R963	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R964	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R970	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R973	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R974	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R976	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R977	QRL039J-120	OMF RESISTOR	12Ω 3W J
R978	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R981	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L002	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L003	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L101	QQL244K-1R0Z	PEAKING COIL	1uH K
L351	QQL244J-220Z	COIL	22uH J
L522	QQR1005-004	LINEARITY COIL	
L530	QQL244K-220Z	PEAKING COIL	22uH K
L551	QQLZ034-320	COIL	32uH
L701	NQL092K-100X	COIL	10uH K
L702	NQL092K-100X	COIL	10uH K
L703	NQL092K-100X	COIL	10uH K
L704	NQL092K-100X	COIL	10uH K
L705	NQL092K-100X	COIL	10uH K
L706	NQL092K-100X	COIL	10uH K
L707	NQL092K-100X	COIL	10uH K
L708	NQL092K-100X	COIL	10uH K
L709	NQL092K-100X	COIL	10uH K
L710	NQL092K-100X	COIL	10uH K
L711	NQL092K-100X	COIL	10uH K
L712	NQL092K-100X	COIL	10uH K
L713	NQL092K-100X	COIL	10uH K
L714	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L715	NQL092K-100X	COIL	10uH K
L716	NQL092K-100X	COIL	10uH K
L717	NQL092K-100X	COIL	10uH K
L951	QQLZ034-460	HEATER CHOKE	46uH
L954	QQL244J-5R6Z	COIL	5.6uH J
L972	QQL244J-5R6Z	COIL	5.6uH J
L973	QQL244J-5R6Z	COIL	5.6uH J
L975	QQL26AK-820Z	CHOKE COIL	82uH K
L994	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
T521	QQR1522-001	DRIVE TRANSF	
⚠T921	QQS0273-001	SW TRANSF	
⚠PC901	PS2581AL1/QW/	PHOTO COUPLER	
⚠CP650	ICP-N20-Y	IC PROTECTOR	800mA
⚠CP952	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP953	ICP-N38-Y	IC PROTECTOR	1.5A
⚠CP955	ICP-N75-Y	IC PROTECTOR	2.7A
⚠F901	QMF51E2-4R0J4	FUSE	4A AC250V
J801	QNN0350-001	PIN JACK	VIDEO1/S-VIDEO
J802	QNN0349-002	PIN JACK	VIDEO2/COMP
J803	QNN0348-001	PIN JACK	VIDEO2/COMP
J804	QNN0349-001	PIN JACK	VIDEO OUT
J806	QNN0281-003	PIN JACK	VIDEO3(FRONT)/L3
J807	QNN0281-002	PIN JACK	VIDEO3(FRONT)/R3
J808	QNN0282-001	PIN JACK	VIDEO3(FRONT)/V3
J809	QNS0155-001	3.5 JACK	HEADPHONE
K103	QQR1114-001Z	FERRITE BEADS	
K107	QQR1114-001Z	FERRITE BEADS	
K108	QQR1114-001Z	FERRITE BEADS	
K301	QQR1113-001Z	FERRITE BEADS	
K355	QQR1113-001Z	FERRITE BEADS	
K901	QQR1114-001Z	FERRITE BEADS	
K921	QQR1114-001Z	FERRITE BEADS	
K922	QQR1114-001Z	FERRITE BEADS	
K951	QQR1114-001Z	FERRITE BEADS	
K952	QQR1113-001Z	FERRITE BEADS	
K953	QQR1113-001Z	FERRITE BEADS	
K955	QQR1113-001Z	FERRITE BEADS	
LC801	QQR1199-001	EMI FILTER	
LC802	QQR1199-001	EMI FILTER	
LC803	QQR1199-001	EMI FILTER	
LC804	QQR1199-001	EMI FILTER	
LC805	QQR1199-001	EMI FILTER	
⚠LF901	QQR0673-004	LINE FILTER	
⚠LF902	QQR1035-001	LINE FILTER	
⚠RY901	QSK0061-002	RELAY	
S801	QSW0619-003Z	TACT SWITCH	MENU
S802	QSW0619-003Z	TACT SWITCH	CH-
S803	QSW0619-003Z	TACT SWITCH	CH+
S804	QSW0619-003Z	TACT SWITCH	VOL-
S805	QSW0619-003Z	TACT SWITCH	VOL+
⚠S901	QSW0750-001	PUSH SWITCH	POWER
SF101	QAX0663-001	SAW FILTER	
SF102	QAX0731-001	SAW FILTER	
⚠SK351	QNZ0536-001	CRT SOCKET	
⚠TH901	QAD0134-4R5	P THERMISTOR	4.5Ω
TU001	QAU0246-002	TUNER	
⚠VA901	QAF0060-621	VARISTOR	620V
X701	QAX0799-001Z	CRYSTAL	
	LC30114-001C-H	LED HOLDER	

PRINTED WIRING BOARD PARTS LIST [AV-17V214/V]

MAIN P.W. BOARD ASS'Y (SCW-1618A-CK)

⚠Ref No.	Part No.	Part Name	Description Local
IC351	TDA6107AJF/N1	IC	
IC401	AN15525A	IC	
IC601	AN5279	IC	
IC701	TDA11020-ETV	IC(MCU)	(SERVICE)
IC702	AT24C16-21C14	IC	(SERVICE)
IC801	RPM7238-H5	IR DETECT UNIT	
IC921	STR-W5753A/F5	IC	
IC972	BA33BC0T	REGULATOR IC	
IC973	PQ120RDA1SZ	IC	
IC974	MM1561JF-X	IC	
IC975	PQ050RDA1SZ	IC	
IC976	MM1561JF-X	IC	
Q101	2SC5083/L-P/-T	TRANSISTOR	
Q102	UN2212-X	DIGI TRANSISTOR	
Q103	UN2212-X	DIGI TRANSISTOR	
Q341	2SA1530A/QR/-X	TRANSISTOR	
Q521	2SC2655/Y/-T	TRANSISTOR	
⚠Q522	TT2190LS-YB11	TRANSISTOR	
Q571	2SA1208/ST/Z1-T	TRANSISTOR	
Q572	2SC3928A/QR/-X	TRANSISTOR	
Q601	2SA1530A/QR/-X	TRANSISTOR	
Q602	2SA1530A/QR/-X	TRANSISTOR	
Q605	DTC323TK-X	DIGI TRANSISTOR	
Q607	2SC3928A/QR/-X	TRANSISTOR	
Q608	2SC3928A/QR/-X	TRANSISTOR	
Q609	UN2212-X	DIGI TRANSISTOR	
Q703	2SA1530A/QR/-X	TRANSISTOR	
Q704	2SC3928A/QR/-X	TRANSISTOR	
Q705	SSM3K02F-X	MOS FET	
Q706	SSM3K02F-X	MOS FET	
Q707	2SC3928A/QR/-X	TRANSISTOR	
Q708	2SA1530A/QR/-X	TRANSISTOR	
Q760	2SA1530A/QR/-X	TRANSISTOR	
Q761	2SC3928A/QR/-X	TRANSISTOR	
Q762	2SA1530A/QR/-X	TRANSISTOR	
Q791	DTC124ESA-T	DIGI TRANSISTOR	
Q801	KTA1267/YG/-T	TRANSISTOR	
Q803	DTC323TK-X	DIGI TRANSISTOR	
Q805	2SA1530A/QR/-X	TRANSISTOR	
Q980	2SB1201/S/	TRANSISTOR	
Q981	2SC3928A/QR/-X	TRANSISTOR	
Q982	2SC3928A/QR/-X	TRANSISTOR	
D101	1SS268-X	SI DIODE	
D341	MA111-X	SI DIODE	
D342	MA111-X	SI DIODE	
D343	MA111-X	SI DIODE	
D345	MA111-X	SI DIODE	
D350	MA8075/M/-X	Z DIODE	
D351	EU01N-T2	SI DIODE	
D354	RGP10J-5025-T3	SI DIODE	
D355	RGP10J-5025-T3	SI DIODE	
D356	RGP10J-5025-T3	SI DIODE	
D422	MTZJ75-T2	Z DIODE	
D423	GP10DE-5009-T2	SI DIODE	
D471	1SR124-400A-T2	SI DIODE	
D472	MA111-X	SI DIODE	
D520	MA111-X	SI DIODE	
D523	RGP10J-5025-T3	SI DIODE	
D530	RGP10J-5025-T3	SI DIODE	
D551	RGP10J-5025-T3	SI DIODE	
D554	MA8051/L/-X	Z DIODE	
D571	MA8075/H/-X	Z DIODE	
D581	RGP10J-5025-T3	SI DIODE	
D582	MA8200/M/-X	Z DIODE	
D601	MA111-X	SI DIODE	
D602	1SS133-T2	SI DIODE	
D603	MA111-X	SI DIODE	
D701	MA111-X	SI DIODE	
D702	MA8091/H/-X	Z DIODE	
D704	MA8091/H/-X	Z DIODE	
D706	MA8036-X	Z DIODE	
D707	MA111-X	SI DIODE	
D708	MA111-X	SI DIODE	
D709	MA111-X	SI DIODE	
D711	MA111-X	SI DIODE	
D712	MA111-X	SI DIODE	
D713	MA8039/H/-X	Z DIODE	
D714	MA8030/H/-X	Z DIODE	
D791	MA8051/M/-X	Z DIODE	
D801	NCB31HK-152X	C CAPACITOR	1500pF 50V K
D805	MA8091/H/-X	Z DIODE	
D808	LH22440-T16	LED	POWER(RED)
D813	MA8091/H/-X	Z DIODE	
D814	MA8091/H/-X	Z DIODE	
D815	NCB31HK-152X	C CAPACITOR	1500pF 50V K
D816	MA8091/H/-X	Z DIODE	
D921	RGP10J-5025-T3	SI DIODE	
D922	RGP10J-5025-T3	SI DIODE	
D926	RGP10M-5010-T3	SI DIODE	
D927	1SS133-T2	SI DIODE	
D928	MTZJ16C-T2	Z DIODE	
D929	1SS133-T2	SI DIODE	
D931	MTZJ9.1C-T2	Z DIODE	
D932	MTZJ36A-T2	Z DIODE	
D933	MTZJ9.1C-T2	Z DIODE	
D934	MTZJ3.3A-T2	Z DIODE	
D951	RU3AM-LFC4	SI DIODE	
D952	FSF05A20	SI DIODE	
D953	ERC30-02L38	SI DIODE	
D955	RGP10J-5025-T3	SI DIODE	
D962	MA8330/M/-X	Z DIODE	
D970	MA8082/M/-X	Z DIODE	
D971	MA111-X	SI DIODE	
D973	MA111-X	SI DIODE	
D975	MA111-X	SI DIODE	
D977	MA111-X	SI DIODE	
D980	1SR124-400A-T2	SI DIODE	
D981	1SS133-T2	SI DIODE	
C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C004	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C005	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C006	QETN1CM-336Z	E CAPACITOR	33uF 16V M
C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C102	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C104	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C106	NDC31HJ-180X	C CAPACITOR	18pF 50V J
C107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C108	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C109	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C110	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C111	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C341	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C351	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C352	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C353	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C359	QCZ0131-821	C CAPACITOR	820pF 2kV K
C401	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C421	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C423	NDC31HJ-180X	C CAPACITOR	18pF 50V J
C425	QETM1EM-228	E CAPACITOR	2200uF 25V M
C427	QEHR1VM-108Z	E CAPACITOR	1000uF 35V M
C428	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C429	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C430	QFN32AJ-472Z	M CAPACITOR	4700pF 100V J
C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
C471	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C520	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K
C522	QFLC1HJ-822Z	M CAPACITOR	8200pF 50V J
C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M
⚠C524	QFZ0196-972	MPP CAPACITOR	9700pF 1.5kV H
C529	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C555	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J
C571	QEZ0203-107	E CAPACITOR	100uF 160V M
C572	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C573	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C582	QFZ0197-274	MPP CAPACITOR	0.27uF 250V J
C601	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C602	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C607	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C609	QETN1CM-336Z	E CAPACITOR	33uF 16V M
C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C613	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C615	QETN1CM-477Z	E CAPACITOR	470uF 16V M

⚠Ref No.	Part No.	Part Name	Description Local
C656	QETN1HM-107Z	E CAPACITOR	100uF 50V M
C670	NCB21CK-105X	C CAPACITOR	1uF 16V K
C701	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C702	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C705	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J
C706	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J
C707	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C708	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C710	NCB31HK-682X	C CAPACITOR	6800pF 50V K
C711	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C712	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J
C713	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C714	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C716	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C717	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C718	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C720	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C721	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C723	NCB21CK-105X	C CAPACITOR	1uF 16V K
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C727	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C729	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C730	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C731	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C732	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C733	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C734	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C735	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C737	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C738	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C739	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C740	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C741	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C742	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C745	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C746	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C747	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C748	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C749	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C750	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C751	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C752	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C753	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C754	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C755	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C756	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C757	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C758	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C759	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C760	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C761	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C762	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C763	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C764	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C765	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C766	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C767	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C768	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C769	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C770	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C771	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C772	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C773	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C774	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C775	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C776	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C777	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C778	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C779	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C780	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C781	NCB21CK-105X	C CAPACITOR	1uF 16V K
C782	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C789	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C792	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C804	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C806	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C807	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
⚠C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
⚠C903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
⚠C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
⚠C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C906	QEZ0633-127	E CAPACITOR	120uF 450V M
C910	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K
C922	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J
C924	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C925	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C926	QFLC1HJ-822Z	M CAPACITOR	8200pF 50V J
C928	NCB31HK-221X	C CAPACITOR	220pF 50V K
C929	QFKA2JK-103	MM CAPACITOR	0.01uF 630V K
C931	QCZ0364-681	C CAPACITOR	680pF 2kV K
C940	QCZ0364-561	C CAPACITOR	560pF 2kV K
C949	QETN1AM-108Z	E CAPACITOR	1000uF 10V M
C951	QCZ0364-122	C CAPACITOR	1200pF 2kV K
C952	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C953	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C955	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C956	QEZ0203-107	E CAPACITOR	100uF 160V M
C957	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C958	QETN1VM-337Z	E CAPACITOR	330uF 35V M
C960	QETM1VM-228	E CAPACITOR	2200uF 35V M
C962	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C963	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C964	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C965	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C967	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C968	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C975	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C976	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C977	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C978	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C979	QETN1EM-107Z	E CAPACITOR	100uF 25V M
C980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C981	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C982	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C983	QETN1CM-106Z	E CAPACITOR	10uF 16V M
C984	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C985	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C986	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C987	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C988	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C989	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
⚠C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M
⚠C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M
⚠C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M
R001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R004	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R322	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R323	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R341	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R344	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R345	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R351	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R352	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R354	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R355	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R356	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R357	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R358	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R359	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R369	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J
R370	QRE121J-394Y	C RESISTOR	390kΩ 1/2W J
R402	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R404	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R405	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R411	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R421	QRL029J-102	OMF RESISTOR	1kΩ 2W J

⚠Ref No.	Part No.	Part Name	Description Local
R423	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R424	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R425	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R432	QRE121J-4R7Y	C RESISTOR	4.7Ω 1/2W J
R433	QRE121J-4R7Y	C RESISTOR	4.7Ω 1/2W J
R434	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R440	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
R471	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R472	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R473	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R474	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R522	QRE121J-560Y	C RESISTOR	56Ω 1/2W J
R523	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R524	QRL039J-560	OMF RESISTOR	56Ω 3W J
R527	QRL039J-223	OMF RESISTOR	22kΩ 3W J
R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
⚠R530	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
⚠R533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
R554	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R570	QRT029J-1R5	MF RESISTOR	1.5Ω 2W J
R571	QRT029J-1R8	MF RESISTOR	1.8Ω 2W J
R572	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R574	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J
R575	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R576	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R581	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R582	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R583	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R585	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R602	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R603	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R609	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R620	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R623	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R624	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R625	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R626	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R627	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R629	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R630	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R632	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R670	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R671	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R672	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R673	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R674	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R675	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R701	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R705	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R707	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R709	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R711	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R712	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R715	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R726	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R727	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R731	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R735	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R737	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R740	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R741	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R743	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R745	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R746	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R747	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R748	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R753	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R754	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R755	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R759	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R761	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R762	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R763	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R764	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R765	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R768	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R772	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R773	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R776	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R779	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R780	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R781	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R782	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R783	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R791	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R793	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R795	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R796	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R797	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R798	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R807	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R809	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R810	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R811	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R814	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R815	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R817	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R818	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R819	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R820	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R821	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R822	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R823	QRE121J-470Y	C RESISTOR	47Ω 1/2W J
R824	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R901	QRF104K-3R9	UNF WW RESISTOR	3.9Ω 10W K
R902	QRL029J-104	OMF RESISTOR	100kΩ 2W J
R903	QRL029J-104	OMF RESISTOR	100kΩ 2W J
⚠R910	QRZ0111-474	C RESISTOR	470kΩ 1/2W K
R921	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
R922	QRZ0237-R18	UNF WW RESISTOR	0.18Ω 3W J
R923	QRE121J-1R8Y	C RESISTOR	1.8Ω 1/2W J
R924	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R930	QRL039J-683	OMF RESISTOR	68kΩ 3W J
R931	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R932	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J
R933	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R934	QRE121J-562Y	C RESISTOR	5.6kΩ 1/2W J
R962	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R970	QRE121J-821Y	C RESISTOR	820Ω 1/2W J
R973	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R974	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R976	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R978	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R980	QRE121J-472Y	C RESISTOR	4.7kΩ 1/2W J
R981	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R982	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
R983	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R984	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R985	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R986	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J
⚠R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L002	QQR1114-001Z	FERRITE BEADS	
L003	QQL244J-4R7Z	PEAKING COIL	4.7uH J
L101	QQL244K-1R0Z	PEAKING COIL	1uH K
L351	QQL244J-5R6Z	COIL	5.6uH J
L522	QQR1005-004	LINEARITY COIL	
L530	QQL244K-220Z	PEAKING COIL	22uH K

⚠Ref No.	Part No.	Part Name	Description	Local
L551	QQLZ034-640	HEATER CHOKE	64uH	
L701	NQR0199-004X	FERRITE BEADS		
L702	NQR0199-004X	FERRITE BEADS		
L704	NQR0199-004X	FERRITE BEADS		
L705	NQR0199-004X	FERRITE BEADS		
L706	NQR0199-004X	FERRITE BEADS		
L707	NQR0199-004X	FERRITE BEADS		
L708	NQR0199-004X	FERRITE BEADS		
L709	NQR0199-004X	FERRITE BEADS		
L710	NQR0199-004X	FERRITE BEADS		
L711	NQR0199-004X	FERRITE BEADS		
L712	NQR0199-004X	FERRITE BEADS		
L713	NQR0199-004X	FERRITE BEADS		
L714	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L715	NQR0199-004X	FERRITE BEADS		
L716	NQR0199-004X	FERRITE BEADS		
L717	NQR0199-004X	FERRITE BEADS		
L951	QQL26AK-820Z	CHOKE COIL	82uH K	
L952	QQL26AK-820Z	CHOKE COIL	82uH K	
L954	QQL244J-5R6Z	COIL	5.6uH J	
L972	QQL244J-5R6Z	COIL	5.6uH J	
L973	QQL244J-5R6Z	COIL	5.6uH J	
L975	QQL26AK-820Z	CHOKE COIL	82uH K	
T521	QQR1522-001	DRIVE TRANSF		
⚠T921	QQS0272-001	SW TRANSF		
⚠CP952	ICP-N38-Y	IC PROTECTOR	1.5A	
⚠CP953	ICP-N38-Y	IC PROTECTOR	1.5A	
⚠CP955	ICP-N75-Y	IC PROTECTOR	2.7A	
⚠F901	QMF51E2-3R15J4	FUSE	3.15A AC250V	
J801	QNN0348-002	PIN JACK	VIDEO1	
J802	QNN0348-002	PIN JACK	VIDEO OUT	
J806	QNN0281-003	PIN JACK	VIDEO2(FRONT)/V	
J807	QNN0281-002	PIN JACK	VIDEO2(FRONT)/A	
J809	QNS0197-001	3.5 JACK	HEADPHONE	
K101	QQR1114-001Z	FERRITE BEADS		
K103	QQR1114-001Z	FERRITE BEADS		
K301	QQR1113-001Z	FERRITE BEADS		
K355	QQR1113-001Z	FERRITE BEADS		
K801	QQR0601-001Z	COIL		
K921	QQR1114-001Z	FERRITE BEADS		
K922	QQR1114-001Z	FERRITE BEADS		
K951	QQR1114-001Z	FERRITE BEADS		
K952	QQR1114-001Z	FERRITE BEADS		
K953	QQR1114-001Z	FERRITE BEADS		
K954	QQR1114-001Z	FERRITE BEADS		
K955	QQR1114-001Z	FERRITE BEADS		
⚠LF901	QQR0673-004	LINE FILTER		
S801	QSW0619-003Z	TACT SWITCH	MENU	
S802	QSW0619-003Z	TACT SWITCH	CH-	
S803	QSW0619-003Z	TACT SWITCH	CH+	
S804	QSW0619-003Z	TACT SWITCH	VOL-	
S805	QSW0619-003Z	TACT SWITCH	VOL+	
⚠S901	QSW1041-001	PUSH SWITCH	POWER	
SF101	QAX0663-001	SAW FILTER		
SF102	QAX0731-001	SAW FILTER		
⚠SK351	QNZ0536-001	CRT SOCKET		
⚠TH901	QAD0121-9R0	P THERMISTOR	9Ω	
TU001	QAU0246-002	TUNER		
⚠VA901	QAF0060-621	VARISTOR	620V	
X701	QAX0799-001Z	CRYSTAL		
	LC30114-001C-H	LED HOLDER		

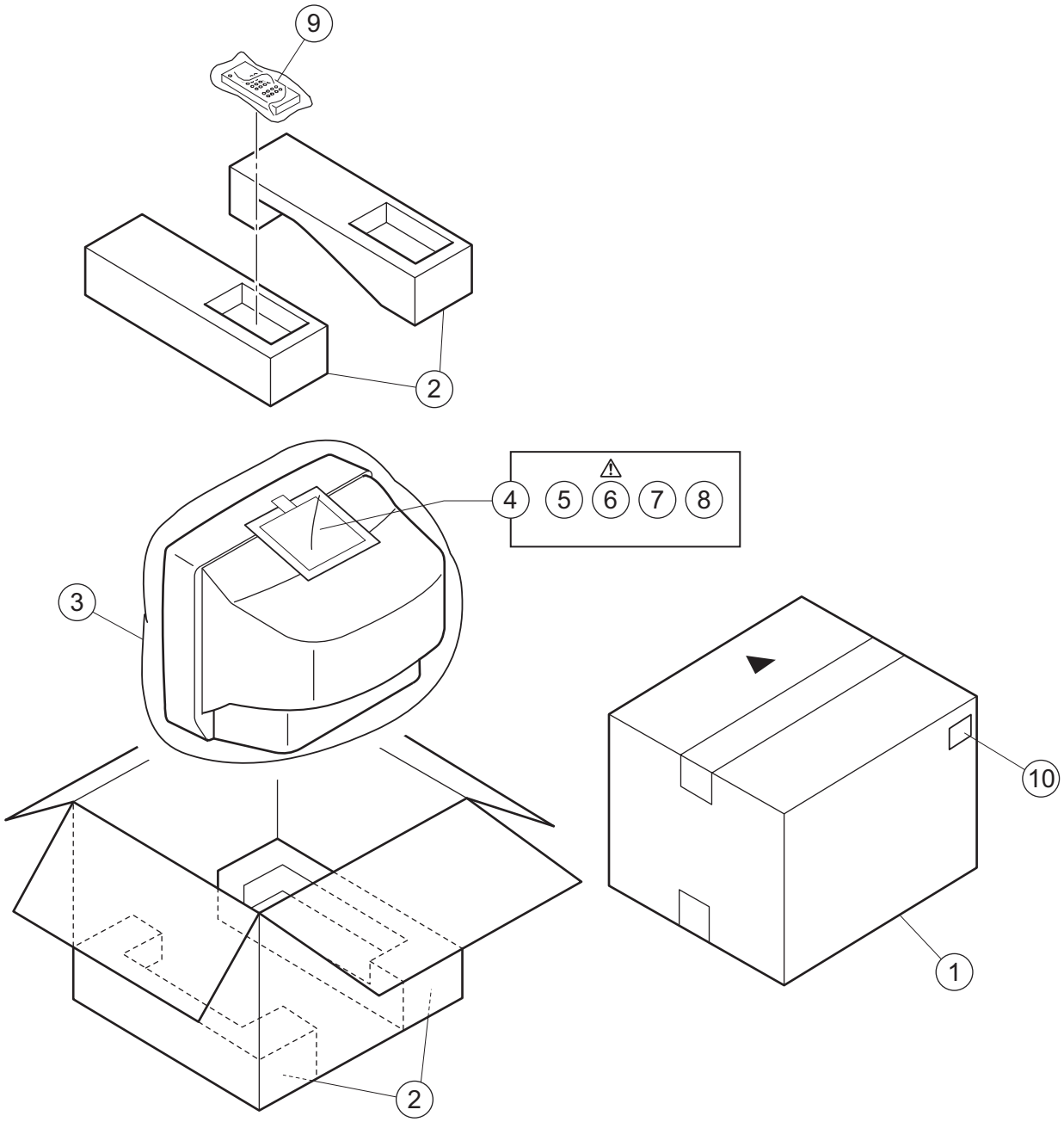
REMOTE CONTROL UNIT PARTS LIST (RM-C1281-2H)

⚠ Ref No.	Part No.	Part Name	Description	Local
	R25-8566	BATTERY COVER		

REMOTE CONTROL UNIT PARTS LIST (RM-C1261-2H)

⚠ Ref No.	Part No.	Part Name	Description	Local
	R25-8567	BATTERY COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	GG10078-045A-E	PACKING CASE		AV-17V314/V
	1	GG10078-043A-E	PACKING CASE		AV-17V214/V
	2	GG10299-001A-E	CUSHION ASSY	4pcs in 1set	
	3	GG30033-001A-E	POLY BAG		
	4	GG30034-001A-E	POLY BAG		
	5	----------	BATTERY	AA/R6 (x2)	
⚠	6	GGT0051-001D-E	INST BOOK		AV-17V314/V
⚠	6	GGT0052-001B-E	INST BOOK		AV-17V214/V
	7	CEAB005-00AJ1	MATCHING BOX		
	8	CM35847-00B-H	ROD ANTENNA ASSY		
	9	RM-C1281-2H	REMOCON UNIT		AV-17V314/V
	9	RM-C1261-2H	REMOCON UNIT		AV-17V214/V
	10	GG40037-001A-E	POS S LABEL		